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FINANCIAL TIMES

World Business Newspaper <http://www.FT.com>

WEDNESDAY SEPTEMBER 2 1998

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Corruption in Belgium
High-profile trial could
shake the political elite
Page 6



Management courses
How 'whispering' to horses
improves your people skills
Page 18



Skymark
Japan's first no-frills
airline takes off
Companies, Page 15

FT-IT Review
For big IT companies,
it's research or die
Separate section

Business and the Euro



Tomorrow's FT launches a weekly page
examining the impact of the new European
currency, the Euro, on business and finance.

WORLD NEWS

Sinn Féin pledges
to make violence
'thing of the past'

Gerry Adams, president of Sinn Féin, the IRA's political wing, offered an olive branch to Northern Ireland unionists, committing his party to making violence "a thing of the past". Page 8

Belgian political system on trial
A former Nato secretary-general and the head of one of France's biggest defence groups go on trial in Brussels in a corruption case whose revelations could undermine the Belgian political establishment. Page 6

France tries Islamic militants
The trial of nearly 140 suspected Islamic militants accused of aiding insurgents in Algeria opened in France.

Cyprus 'confederation' rejected
The Cypriot and Greek governments rejected a proposal by Rauf Denktaş, the Turkish Cypriot leader, that the island's Greek and Turkish communities solve their differences by forming a confederation. Page 6

\$1bn EU aid for Bangladesh
The European Union approved \$1bn in aid for the victims of flooding in Bangladesh. More than 550 people have been killed, and some 25 million displaced by the floods.

Angola closer to resuming war
Angola lurched closer to a full resumption of civil war by excluding the former rebel movement Unita from parliament and government in Luanda. Page 6

Microsoft accused of intimidation
The US government broadened its legal attack on Microsoft by accusing the world's largest software company of trying to intimidate sector giants to protect its monopoly. Page 12; US government broadens attack, Page 7

Deals 'to make the world safer'
The US announced two arms control agreements with Russia that it claimed would make for a safer world. Page 3

Mexico City police shake-up
Mexico City's new police chief has announced plans to reorganise the force in a policy shake-up intended to tackle the crime wave plaguing the city. Page 7

Vietnam dissident freed
Vietnam's best-known dissident, Doan Viet Hoa, serving 15 years for publishing pro-democracy newsletters, was freed from Hanoi Prison and flown to Bangkok. US officials have accepted him for resettlement.

Philippines president prevails
Joseph "Erap" Estrada, new president of the Philippines, appears to have won a fight for control over the country's industrial development at Subic Bay, former US military base. Page 4

Former Financial Times editor dies
Sir Gordon Newton, editor of the Financial Times for 22 years until 1972, died on Monday at the age of 90. One of the architects of today's FT, he transformed it into a world-ranking economic and political newspaper and was one of the outstanding figures of financial and economic journalism in the post-war era. Page 8

BUSINESS NEWS

Malaysia pulls
ringgit out of
currency markets

Mahathir Mohamad, the Malaysian prime minister, imposed currency controls to take the ringgit out of international financial markets. He also announced restrictions on currency holdings in an attempt to regain authority over his economy. Page 12; Editorial Comment, Page 11

Canal Plus, the French media group, said four top Italian soccer teams had awarded exclusive broadcasting rights to Telepolis, its 90 per cent-owned Italian subsidiary. Page 16

Banque Bruxelles Lambert, Belgium's third-largest bank, announced a 16 per cent increase in first-half net profits despite an increase in write-downs and provisions. Page 18

Spain's mobile telephone market enabled the Telefónica group to maintain high profit growth in the first half, with a 16.2 per cent rise in consolidated net earnings to \$1.11bn (\$640m). Page 13

Volkswagen confirmed its ambition to expand into the heavy truck business but pulled back from earlier statements that it intended to do so by buying a leading manufacturer. Page 16

Daimler-Benz's once loss-making commercial vehicles division is set to meet the group target of a 12 per cent return on capital employed this year for the first time. Page 13

Ericsson, the Swedish telecoms group, has cut business ties with Burma because of threats of a consumer boycott by US activists hostile towards the ruling military junta. Page 16

IBM is thought to have received up to 12 expressions of interest from telephone companies keen to buy its \$4bn international data network. Page 13

Hoesch of Germany suffered a further setback to its restructuring efforts with the announcement that a joint venture with Mobil had founded. Page 13

Southcorp, the Australian wine, appliance and packaging group, posted record profits on strong demand for its wine in Europe and North America. Page 15

Mayr-Melnhof Karton, the Austrian group which is Europe's biggest cartonboard maker, is seeking a buyer for its waste paper recycling business. Page 16

US manufacturing slowed in August for the third month as the Asian economic crisis continued to hit exports. Page 7

KPN, the privatised Dutch telecoms group, achieved a record increase in first-half volumes. Page 16

Romans is trying to renegotiate the terms of a \$1.5bn deal with Bell Helicopter of the US. Page 4

World Equity Markets
The latest trends and data from more than 50 national markets at a glance
Page 31

WORLD MARKETS

STOCK MARKET INDICES			
New York: Listings	7593.29	(-154.22)	
Nasdaq Composite	1535.49	(-32.24)	
Standard & Poor 500	1025.29	(-15.68)	
Caixa	3245.29	(-5.68)	
Dax	4791.81	(-42.08)	
FTSE 100	5108.1	(-20.38)	
Nikkei	14009.03	(+261.74)	
US: INDUSTRIAL RATES			
Federal Funds	5.5%		
3-month T-bill rate	4.92%		
Long Bond	10.2%		
Yield	8.32%		
OTHER RATES			
UK: 3-month bank rate	7.75%		
UK: 10-year Gilt	11.40%	(11.16%)	
France: 10 yr OAT	10.82	(10.05%)	
Germany: 10 yr Bund	10.31	(10.78%)	
Japan: 10 yr JGB	11.25%	(11.83%)	
NORTH SEA OIL (Argus)			
West Crude	\$17.05	\$11.05	

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BARCLAYS TAKES A \$419m CHARGE AS INTERNATIONAL BANKS COUNT THE COST OF EXPOSURE TO RUSSIA

Markets hit by further turbulence

By our international and financial staff

World stock markets suffered another turbulent session, as Monday's big fall on Wall Street was followed by a very volatile start to US trading.

Turbulence in Russia's markets also took its toll on international banks. Barclays, the UK bank, said it had written down its exposure to Russia to 10 per cent of its dollar value, resulting in a \$260m (\$419m) pre-tax charge.

European and Asian stock markets mostly finished lower, as a new month brought no respite to bourses that have fallen substantially since mid-July. Zurich, Frankfurt and Madrid have all lost more than 20 per cent since their peak, the conventional definition of a bear market.

But concerns that Monday's 512-point fall in the Dow Jones Industrial Average, which wiped out all the US market's gains for the year, might prompt a global rout proved unfounded.

There were signs that some investors were selling bonds to move back into the equity market at depressed prices. The 30-year US Treasury bond fell more

than a point in early trading and European bonds were also lower.

With the exception of south

east Asia, where the introduction of capital controls in Malaysia damaged sentiment, equity losses were modest by recent standards.

Tokyo gained nearly 2 per cent, however, Barclays was one of

several banks yesterday to announce Russia-related losses or hints at adjustments to provisions.

Nomura Securities, Japan's largest broker, said its joint UK and US operations had incurred losses of \$360m on holdings of Russian government bonds as of

August 31.

Martin Taylor, chief executive, said Barclays' charge reflected the deterioration of the outlook

for Russia in recent days.

"If we had been making these provisions last week, we would have been much lower than \$260m," he said. "From [last] Wednesday to today [Tuesday], it has changed another £100m."

Barclays' US subsidiary had made a pre-tax trading loss of about \$35m so far in the third quarter. The loss was "primarily attributable" to charges to cut exposure to Russian securities to 15 per cent of face value. As of

Monday, its remaining exposure in Russia was \$30m.

Barclays' not securities trading

exposure to Russia was £340m. It

is valuing all Russian exposure

at 20 per cent of its book value

but assuming a dollar exchange

rate of Rbs12, compared with

Rbs5 before last month's devaluation.

Features, Pages 10, 11

■ Markets and effects on real economies

■ How bad can it get in Russia?

Editorial Comment, Page 15

■ Currency controls

■ European Central Bank

Market analysis and statistics

■ Goods, Page 20

■ Currencies, Page 21

■ World stocks, Page 22

■ US stocks, Page 26

■ Lex, Page 12

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WORLD NEWS

MARKETS IN TURMOIL

GLOBALISATION THE BIG AMERICAN COMPANIES THAT BENEFITED FROM THE BOOM OF THE 1990S ARE THE ONES WORST HIT BY THE CURRENT UPHEAVALS

Global companies see their world turned upside down

By Richard Waters and John Authers in New York and Paul Taylor in London

A small band of global companies has prospered from the so-called New Era thinking that has captivated Wall Street for much of the 1990s. Now, with the stock market in disarray, that is companies that have been worst hit.

The investment philosophy behind the bull market has rested heavily on the

belief that a period of sustained growth and ever-rising productivity would be ushered in by the revolution in information technology and the triumph of free market capitalism around the world.

The stocks that benefited most from this view were companies such as Coca-Cola, which has come to symbolise the globalisation of American business, and the twin technology giants of Microsoft and Intel. They

are also the ones that have now suffered the most. "We have seen the upside of globalisation for the last seven years – now we are seeing the downside," said Jeffrey Applegate, equity strategist at Lehman Brothers.

By early afternoon yesterday, Coca-Cola had lost more than a quarter of its value compared with the peak it hit last month, more than the overall loss of the Dow Jones Industrial Average of which it is a part. Both

Microsoft and Intel were down about a fifth.

These well-managed, large-capitalisation global companies had until recently been immune from a weakening in stock prices more generally.

Small companies have been pummelled for some time: the Russell 2,000, the most widely followed index of small stocks, hit its peak as early as April and has since fallen by 30 per cent. Multinationals had been held out as immune from such declines, thanks to their global reach and the rapid growth and supposedly secure profit gains that seemed to justify a premium stock market rating.

Companies which have used their high stock market valuations to fuel acquisitions have also fallen back. Travelers, the financial services group in the midst of a planned merger with Citicorp, has seen its stock price plunge by more than 40 per

cent from the peak: WorldCom, which is on the brink of completing an acquisition of MCI Communications, has lost nearly 30 per cent.

Among particular stock market sectors, meanwhile, it has been technology and financial services – the two biggest engines behind the earlier run-up in stock prices – that have suffered the worst losses.

The fall in tech stocks, particularly those in the internet sector, have

prompted some investors and analysts to question whether the "internet bubble" has finally burst.

Among the biggest price declines have been seen in internet "portal site" stocks such as Yahoo, the most visited site on the web. Excite, America Online and Netscape, which helped launched the internet stock boom, and Amazon.com, the internet book retailer.

More than half of the fall came before last week, when banks started announcing their losses as a result of the Russian crisis.

STOCK OPTIONS

Blow to executive pay packets

By Richard Tomkins in New York and Jonathan Ford in London

Top executives of some of the world's biggest corporations have suffered paper losses running into millions of dollars a head as a result of the recent stock price declines.

The executives are out of pocket because of the fall in value of their stock options, which allow them to buy shares in the company at a set price in the future.

The losses are particularly high in the US, where many chief executives have been taking a high proportion of their remuneration in the form of stock options than in pay and bonuses.

William Mercer, an employee benefit consultancy, says that last year, 138 out of 350 large US corporations gave their chief executives stock option "megagrants" with a face value of more than three times their pay and bonus.

Examples of those hit hardest by the recent stock price declines include Jill Barad, chairman and chief executive of Mattel, the toy-maker, and George Fisher, chairman and chief executive of Eastman Kodak, the photo imaging company, both of whom have suffered paper losses exceeding \$20m.

Many executives have seen the value of their options fall "under water", or below the exercise price – a phenomenon that could trigger controversy over whether they should be reprieved.

Some companies say repricing is necessary to retain top talent, but shareholder activists strongly oppose that because it extends an advantage not available to other shareholders.

Senior UK executives have fared better because of the Long Term Incentive Plan (L-Tip), a remuneration scheme that has progressively replaced share options since its introduction in 1993. Three quarters of companies in the FTSE 100 index operate L-Tips.

Unlike share options, L-Tips do not involve any payment by the executive. Instead, awards of free shares are made annually, the variable being the size of the grant, which depends on the company having met certain performance targets.

These are generally measured relative to a company's peer group or fellow index constituents, further insulating the executive from adverse market movements.



An investor gazes at share prices at the Tokyo Stock Exchange yesterday. The Nikkei average closed higher on the day

SOVEREIGN BORROWERS ALTERNATIVE LENDERS WILL BE NEEDED

'Tap turned off' for emerging markets

By Edward Luce, Capital Markets Editor

Emerging market governments could be shut out of the international financial markets for the rest of the year and possibly for much longer, said economists yesterday.

The effect of the recent effective default by Russia and the market sell-off around the world will compel emerging markets to seek alternative sources of funding, they say.

"The international tap has once again been turned off," said Peter West, chief economist at BBVA Latinwest, in London yesterday.

"The markets won't look at emerging market paper for a while. And when they do it will be very expensive for governments to raise money internationally."

Some of the biggest European deals in the second half of 1998 are of telecoms privatisations – TPSA of Poland, Swisscom of Switzerland and OTE of Greece.

European institutions remain flush with liquidity, however, and a "flight to quality" in the IPO market appears more likely than their whalers' rejection.

But as one banker noted: "The IPO market thrives on stability and confidence. The whole market environment is not conducive to new issues at the moment."

their domestic bond markets, revenues from privatisations, the international loan markets and – in a genuine emergency – assistance from OECD governments. Of these, the most obvious is the domestic bond markets.

"Countries like Brazil can raise money from their domestic bond markets but it means paying much higher interest rates which will choke off economic growth," said Mr West. "The longer markets are cut off from international capital, the further their growth rates will fall."

BBVA, like other finance houses, has cut its forecast of Latin America's 1998 average growth rate from 3.5 per cent earlier this year to just 1 per cent this week.

Another alternative is to issue asset-backed bonds or securitisations. By earmarking collateral, such as oil revenues or telephone receipts, to service the bond, the borrower can achieve a much higher credit rating than on a straight bond issue.

Bankers say the countries worst affected will be those with the heaviest financing requirements, which include Thailand, Malaysia, South Korea, Brazil and Venezuela.

Brazil, which has a budget deficit of 7 per cent of gross domestic product, was singled out as one of the main victims of the credit crunch.

"Governments everywhere will have to be very inventive to find the capital they need to plug their budget and current account deficits," said Mamnoon Kumar, a director of global emerging markets strategy at Credit Suisse First Boston. "If the crisis continues they will have no choice but to sacrifice any economic growth through higher interest rates or through much lower spending."

Economists say there are a number of alternative sources of financing for emerging markets, including

Turkish move to check outflows

Mesut Yilmaz, Turkish prime minister, has announced measures designed to check capital outflows from Turkey's money markets, which have exceeded \$2bn since Russia effectively devalued the rouble on August 17, reports Christopher de Belligne from Ankara.

Mr Yilmaz hopes to steady the markets through the abolition of a 6 per cent withholding tax on interbank operations, combined with the repeal of a decree forcing banks to limit forward operations to 15 per cent of their equity capital.

Both measures were brought in in July as part of an anti-inflation push.

Mr Yilmaz was prompted to act by growing indications that Turkey's economy has not, as some predicted, remained isolated from woes in other emerging markets.

Although Turkey's markets resisted bad news from Russia and Japan earlier in the year, yields on government bonds have soared from 7.5 to 130 per cent since the end of July. The stock exchange index has fallen 45 per cent in six weeks. Since August 17, the central bank has parted with more than \$2bn in foreign reserves to prop up the lira.

Analysts are divided over whether Mr Yilmaz's measures, which came into effect yesterday, will calm nerves in the long term.

According to Adil Rizvi, an Istanbul broker: "Yilmaz did well to avoid populist measures like postponing the tax on bond revenues."

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Capital market investors are starting to question whether the "newest" ruble has finally survived. The biggest price falls have been seen in what "purest" stocks in Tokyo, the most stable of the world's three major stock exchanges. While it helped avert the market crash, the recent move wiped out a large portion of Monday's gains for all of each trading session. The ruble has already been falling for weeks. Since July 14, the Indonesian Stock Exchange has dropped 20 per cent.

More than half of the banks started trading their losses as a result of the Russian crisis.

ALTERNATIVE LENDERS WILL BE NEEDED

ned off for g markets

Turkish move to check outflows

Mustafa Turhan, Turkey's finance minister, has announced measures to stop capital outflows from Turkey's banks, which have been hit since the ruble's devaluation. The move, part of a package which includes interest rate cuts, and is aimed at preventing the ruble from being used as a financial market capital.

Through their growth

in foreign finance, the ruble has become a resource-rich country.

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ASIA-PACIFIC

Ozawa hits at bank rescue plan

By Michiyo Nakamoto and Gillian Tett in Tokyo



Japan's proposal to rescue the Long-Term Credit Bank of Japan (LTCB) with an injection of public funds is no longer a political option, a leading member of the opposition warned yesterday.

Ichiro Ozawa, leader of the Liberal party, said the ruling Liberal Democratic party's decision to inject more than Y500bn (\$3.5bn) of taxpayers' money to boost LTCB's capital base and support its merger with Sumitomo Trust was "politically impossible".

The government has the legal means to force through its plans. But it faces growing criticism of the plan and is under pressure – amid media reports that LTCB has transferred some of its problem loans to paper companies, and because of a general lack of transparency as to the exact situation at LTCB. "I don't think that they can take a political decision to force through the rescue under those circumstances," Mr Ozawa said.

His comments highlight the difficulty the government faces in pushing through its plans to bail out LTCB. Its success could be critical to ensuring short-term stability in Japan's financial markets, which have been rocked by concerns over a possible collapse of LTCB and political deadlock over the passage of key financial reform bills.

Separately, Takeshi Inai, head of the powerful Keidanren business group, yesterday appealed for an end to the political deadlock and warned that the stalemate risked exacerbating the economic downturn.

He said it was important for a compromise to be hammered out before the prime minister, Keizo Obuchi, meets Bill Clinton, the US president, later this month.

In nervous trading yester-

day, the yield on 10-year benchmark bonds briefly dipped below 1 per cent to touch 0.985 per cent for the first time anywhere, before rebounding to 1.05 per cent.

The Nikkei average, the key stock market indicator, fell 3 per cent to a new 12-year low before recovering to close up 1.86 per cent on the day.

Meanwhile, Fitch IBCA, a credit-rating agency, expressed concern about Japan's long-term economic prospects by issuing a warning that its AAA long-term foreign currency and local currency ratings could be lowered due to the deteriorating health of banks and a gloomy economic outlook.

The Liberal Democratic party's plan for LTCB involves using part of a fiscal stabilisation fund earmarked to recapitalise Japanese banks.

But the opposition is, in principle, opposed to injecting public funds to rescue failing banks. A three-party opposition alliance is putting together a bill that calls for abolishing the fiscal stabilisation fund. The opposition alliance is also opposed to the nuclear weapons programme by shutting down its reactors.

The angry reactions from Japan and the US could instead unravel the agreement, which would plunge north-east Asia into a new nuclear crisis and raise the risks of full-scale war. "North Korea has the tendency of being tactically clever, but strategically stupid in its negotiations," said a US official in Seoul.

Although Pyongyang has broadly adhered to the nuclear agreement's terms, it is complaining that Washington has failed to fulfil its

By Krishna Guha in New Delhi

India's Tata group yesterday announced it was withdrawing its proposal to launch a domestic airline, blaming three years of bureaucratic delays and obstruction from the ministry of civil aviation. The move follows an earlier decision by Tata Industries to shelve plans to build an airport at Bangalore, which also faced delays.

The company denied claims that its decision was a ploy designed to put pressure on the government to clear its plans. "We have lost our patience," said a Tata executive.

"It is over three years since Tata Industries first

applied to the ministry of civil aviation for a domestic airline," the company said. "The applications were in compliance with all known policies and practices. Despite this the Tata proposal... remained on paper due to the inability of four successive governments to implement their own policies."

Public opposition to the plan has been led by MPs and aviation ministry bureaucrats who say it would harm state-owned Indian Airlines. However, Tata executives claim they are the victims of lobbying by Jet Airways, India's biggest private airline.

Tata Industries first

applied to set up an airline in February 1995 in a joint venture with Singapore Airlines, following the government's decision to open the domestic market to private competition, with foreign shareholders holding a stake of up to 40 per cent.

Its latest modified proposal to invest Rs700m (\$165m) was cleared by the investment board in January. Following the election of a new government led by the Bharatiya Janata party (BJP), the new minister of aviation, Ananth Kumar, has repeatedly refused to issue a "no-objection certificate" to clear the project.

India's disinvestment commission has formally advised the government to reduce its holding in Air

India to 40 per cent and find a strategic partner for the troubled national carrier.

In a report to the finance ministry, the commission warns that if no action is taken, Air India could go bankrupt within the next two years. It has debts worth more than four times its equity and a heavy debt burden. Last year it made a loss of Rs135m.

The commission said the airline also needed to expand and upgrade its small fleet – 26 aircraft with an average age of more than 12 years. At present Air India is able to use fewer than half the landing slots available to it under bilateral aviation agreements.

NEWS DIGEST

FEAR OF FURTHER LABOUR UNREST

Hyundai Motor workers reject strike deal

Hyundai Motor, South Korea's largest carmaker, yesterday was threatened with renewed labour unrest after workers spurned a deal that ended a month-long strike last week. Almost two-thirds of the workforce rejected a compromise agreement to sack 277 employees instead of the nearly 1,600 workers initially proposed by Hyundai. The vote reflected protests that the Hyundai union had accepted the principle of mass redundancies, although they were small in number.

The Hyundai dispute had been considered a test case of the ability of companies to sack workers after recent laws ended lifetime employment guarantees. The rejection of the deal represents a setback to the government, which intervened to force a compromise and prevented the strike ending in bloody confrontation between workers and riot police.

The government was later criticised for favouring union demands and giving concessions that will make it harder for corporate restructuring as Korea confronts its worst economic crisis since the 1950s. John Burton, Seoul

PHILIPPINE RULING

Subic Bay chief removed

Joseph "Erap" Estrada, new president of the Philippines, appears to have won a fight for control over the country's flag ship industrial development at Subic Bay, the former US military base. The Supreme Court of Philippines yesterday rejected an appeal against a political foe, Richard Gordon, as chairman of the Subic Bay Management Authority. The move in effect quashed a high-profile campaign by Mr Gordon, who had overseen the transformation of Subic Bay after the departure of the US military in 1991, to retain his position.

Mr Gordon said he would abide by the Supreme Court decision and discuss a smooth transition of the "functions" of the SBMA with Felicitio Payumo, who has been appointed as chairman of the authority by Mr Estrada.

Mr Estrada said he was "very glad" with the Supreme Court decision and hoped Subic Bay could now "return to normal". Tony Tasseff, Manila

INDIAN TRADE

Devaluation boost to exports

India said yesterday exports in July were 7.71 per cent higher in dollar terms than in the same month of last year, suggesting the recent rupee depreciation is slowly boosting previously sluggish trade.

The Indian rupee, which was thought by many economists to be over-valued last year, has fallen in value by 20 per cent since last July. Much of that drop has come in the wake of India's May 11 nuclear tests, with the rupee falling about 8 per cent since the blasts.

The spurt in growth – India's July exports reached \$2.98bn, compared to \$2.77bn in July last year – follows several months of stagnant exports. The value of Indian exports between April and July of this year, however, fell 3.37 per cent, to \$10.6bn, from \$11bn during the same period last year. Amy Louise Kazmin, New Delhi

BELL HELICOPTER AGREEMENT

Romania in bid to alter deal terms

By Stefan Wagstyl and Virginia Marsh in Bucharest

Romania is trying to renegotiate the terms of a \$1.5bn deal with Bell Helicopter of the US to buy and produce military helicopters following strong domestic and international criticism.

President Emil Constantinescu told the Financial Times yesterday that the much delayed agreement remained in Romania's long-term strategic interest because it would help build the country's high-technology industry.

There is discussion on a single aspect – namely having a more favourable financial arrangement for this contract," he said.

His comments come amid a fierce debate over the deal, with Daniel Diaconu, the finance minister, threatening to resign if the contract goes ahead on present terms.

Under the deal, Bell, a subsidiary of Textron, would acquire a controlling stake in IAR, a loss-making state-owned aviation plant, for \$50m, modernise the works and produce attack helicopters for the Romanian military.

Romania would buy 96 helicopters and hope to manufacture more for export. General Electric of the US is also considering investing in Turbomecanica, a Bucharest-based engineering works, to make engines for the helicopters.

Romania considers that bringing two large US industrial companies into the country would boost flagging efforts to encourage foreign investment, preserve jobs and help cement economic and military ties with the US.

Bucharest last year failed to secure early membership of Nato but still hopes to gain entry early next century. The deal was first discussed more than two years

ago and a preliminary agreement signed in the spring of last year.

But the contract came under attack last summer from the International Monetary Fund and the World Bank, which are both involved in talks with Bucharest on new loans.

The agencies argue the cash-starved government cannot afford the deal which, with interest payments, would cost \$2bn. The government responded by asking investment banks to re-examine the deal's financials.

The banks suggested a

scheme under which the

ministry would periodically issue bonds over the lifetime of the 20-year contract to spread the cost.

Bell thought the deal was secured after the cabinet approved this financing arrangement in July, but Mr Diaconu last month launched a last-ditch attack which has since drawn support from some other ministers.

The contract's opponents point out that with gross

last year by nearly 7 per cent and a forecast GDP decline of 4 per cent this year, Romania must cut rather than increase government spending.

Ministers are in the midst

of talks over emergency

spending cuts in the 1998

budget. However, other min-

isters argue that the deal

should be done if the terms

can be renegotiated.

Possible options include buying slightly fewer heli-

copters or securing early

export orders.

Neculai Banea, general manager of the IAR plant near the industrial city of Brasov in Transylvania, said in an interview the contract was vital to the company's future. As well as investing in military production, Bell had also undertaken to invest \$21m in the plant's civil aviation business.

to an expropriation of the business of S.D. Myers, an Ohio-based company.

The case is the second in as many months to raise fears that Canada's ability to uphold its environmental laws has been curtailed by Nafta investment protection provisions.

Nafta allows a foreign corporation to request compensation through arbitration if a government directly or indirectly expropriates the company's investment in that country.

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NEWS DIGEST

FEAR OF FURTHER LABOUR UNREST

General Motor workers reject strike deal

Hyundai Motor, South Korea's largest carmaker, has been threatened with relatively minor charges that it may have violated a law that shields a shareholders' strike last year against two-thirds of the workforce from legal consequences. It says 777 employees, about one-tenth of the nearly 8,000 Korean workers employed by Hyundai, filed the strike, although the Hyundai union has accepted a proposal of wage reductions and, although this was not mentioned, the Korean government has accepted the proposal.

This Myriad dispute had been culminating in two cases, the second of which was to such a remarkable effect, that it was to be called the *Myriad Controversy*. The controversy had been brought to a climax by the claim that, and proceeding to force a competitor to sell, and preventing the competitor by closely controlling his business and sales.

The government was also criticised for failing to encourage foreign investment and for giving concessions that will reduce its capacity for manufacturing as Korea confronts its worse economic crisis since the 1950s. John Burton, Seoul

PHILIPPINE POLICIES

Subic Bay chief removed

"Big" Estrada, now president of the Philippines, is to have won a fight for control over the country's industrial development at Subic Bay, the long-disputed port. The Supreme Court of Philippines yesterday ruled an appeal against the controversial decision of Estrada to pass a political law, known as Goring, which gives the state monopoly of Aegis, Inc., the company which operated a high-risk military port, to the man who had overseen the transition of power three days after the departure of the US military from the province.

Mr. Gurney said he would speak by the telephone to the
Chairman and discuss a proposal to re-arrange the terms
of the BOMA with Poldini Pavarini, who had been
represented as spokesman of the authorities in Milan
by Mazzoni and he was very glad to hear that
Gardiner had and hoped that Mr. Gurney
would do the same.

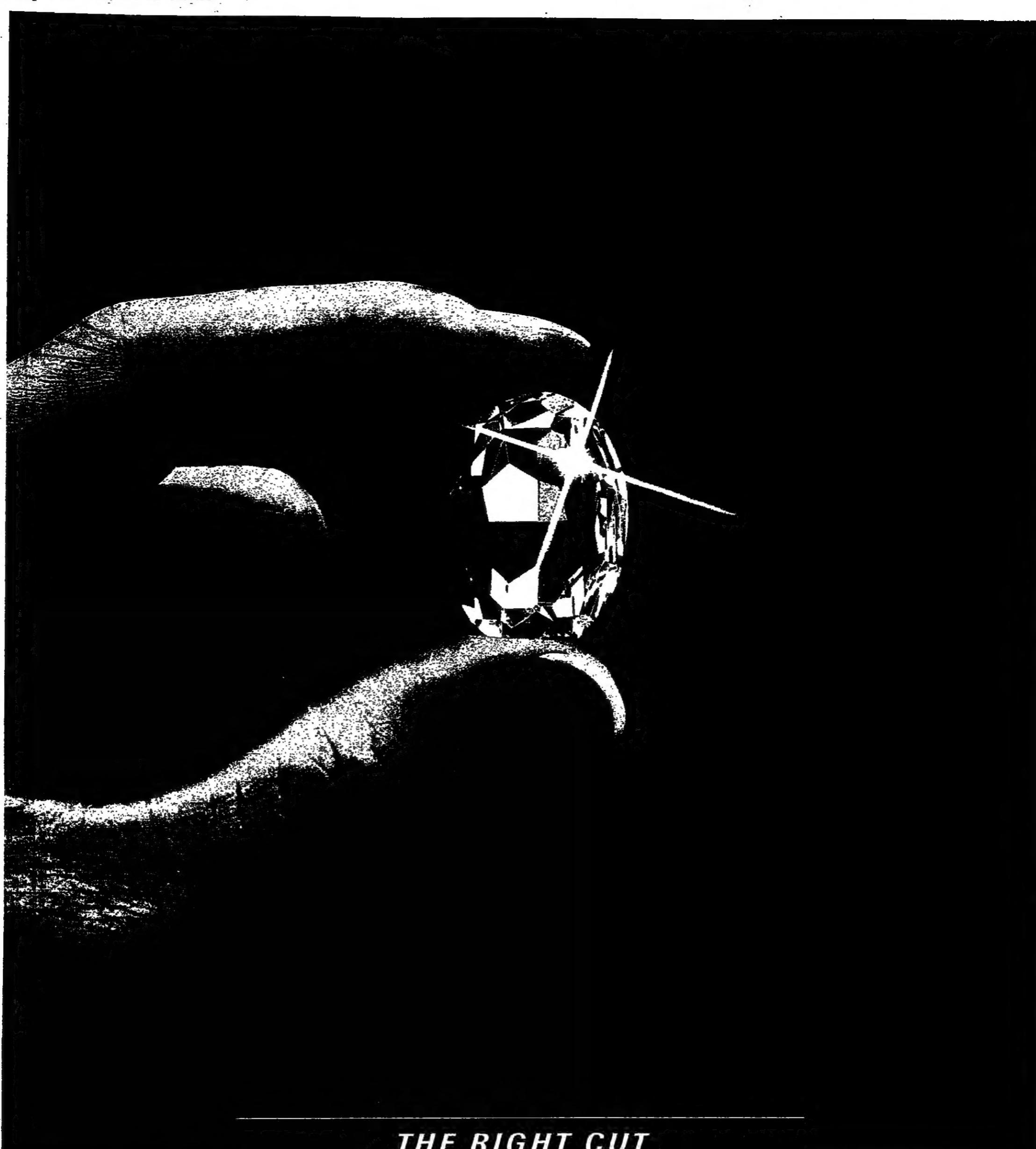
THE STATE

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VERA

INTERNATIONAL

Angola lurches closer to full resumption of war

By Nicholas Shaxson

Angola yesterday lunched closer to a full resumption of civil war by excluding the former rebel movement Unita from parliament and government in Luanda.

Jose Eduardo dos Santos, Angola's president, flew to an international conference in Durban, South Africa, where he expects to meet Kofi Annan, United Nations secretary-general, and try to find a way to salvage Angola's crumbling 1994 Lusaka peace agreement.

The suspension follows a Unita declaration last week in which it said it had stopped co-operating with Portugal, Russia and the US, the so-called "troika" of countries monitoring the UN-brokered accords.

Serious fighting has continued in the north and Angola's state-owned newspaper, *Jornal de Angola*, reported yesterday Unita

had attacked the north-eastern diamond-mining town of Lutembo. Unita now controls all of the northern province of Malange, except for three towns. Diplomats in Luanda said the newspaper report would, if true, mark the first big battle this year inside the strategically vital diamond-rich Lunda Norte province.

Units still has between 10,000 and 15,000 well motivated armed troops and since May has been retaking areas it had officially handed over to the government under the terms of the Lusaka agreement.

But the peace process is still alive, in theory, and officials in Luanda said a new war could still be avoided. The suspension of Unita from parliament is theoretically reversible and Unita said in its August 24 declaration that it was still committed to the Lusaka accord.

"Looking at what has been

happening, you could say Lusaka has been dead for a long time," one diplomat said. "But in practice, we have not yet reached the end of the peace process."

Thousands of Angolan troops are fighting in Democratic Republic of Congo alongside the forces of President Laurent Kabila, who is battling a Rwandan-backed rebellion in the east; as Luanda battles to plug holes in a carefully constructed regional strategy to clamp down on flows of supplies and weapons to Unita across its porous borders.

This strategy has added to successive layers of UN sanctions against the rebel movement which, although leaky, have made it more expensive for Jonas Savimbi, Unita's leader, to supply his forces.

Mr Savimbi hopes he can exploit the turmoil to expand his supply lines, although a diplomat said it

was not yet clear exactly how much he would benefit.

Once backed by the US and South Africa during the cold war against the Marxist-Leninist MPLA in Luanda, Mr Savimbi now has almost no foreign backers, except those he can persuade to sell him arms in exchange for diamonds. If the government holds on to its main diamond mines, Mr Savimbi is not expected to mine much more than \$100m worth of diamonds this year after producing about \$500m last year. Current output is also tiny in comparison with government revenues from 750,000 b/d of oil exports.

Despite the scattered fighting observers said they had not yet seen what many had predicted: an attack by the Angolan Armed Forces (FAA) on Mr Savimbi's main stronghold around the central highlands towns of Andulo and Ballundo.

But when Mr dos Santos

meets Mr Annan he is likely to ask for some form of international mandate to launch such an offensive. The government is very interested in the idea of a UN ultimatum," said an official closely monitoring the peace process. "For example, it could say that if Unita does not comply by a certain date the government will be authorised to pursue full compliance, using force if necessary."

If this happened it would almost certainly finish what is left of the Lusaka accord and prompt a withdrawal of the remaining 400 UN peacekeepers, who have already

pulled back from forward observation posts because of military insecurity. Their mandate expires on September 15. A new UN special representative to Angola, Issa Diallo, arrived in Luanda last week to replace Alainne Blouin-Beyre, who died in an air crash in June.

"I think the new special representative will at least be given the chance to try to and get the process back on track," a diplomat in Luanda said. "But although we have been waiting for a major attack for months now, we are running out of options to prevent it."



Corruption trial puts Belgium's political system in the dock

The start today of the Agusta-Dassault court hearing has deep resonances for many Belgians. Neil Buckley sets the scene

A former Nato secretary-general and the head of one of France's biggest defence groups go on trial in Brussels today in a multi-million dollar corruption case whose revelations could further undermine the stable Belgian political establishment.

Willy Claes, the former Nato chief and Belgian deputy prime minister, and Serge Dassault, head of Dassault Aviation, are among 12 defendants in the so-called Agusta-Dassault case, labelled the biggest corruption trial in Belgium's 18-year history.

Alongside them are another former Belgian deputy prime minister, and two other former ministers, plus former lawyers and officials of the Socialist parties in both Belgium's French- and Dutch-speaking regions.

The defendants would have numbered 13, but for the death from a heart attack in Rome 11 days ago

of Raffaele Teti, former chief executive of Agusta, the Italian helicopter maker.

The case centres on allegations that Dassault and Agusta were awarded contracts in the late 1980s in return for paying bribes worth several million dollars to the two party wings.

But the trial has deeper resonances. Many Belgians see the sight of several former senior politicians in the dock as further evidence that their political system is shot through with corruption.

Confidence in public institutions is already at an all-time low after the mishandling of a paedophile murder scandal over the past two years. This culminated in the brief escape in May of the man at its centre, Marc Dutroux.

The trial could produce further damaging revelations for the ruling Socialist-Christian Socialist coalition.

The payments were made

as it prepares for a general election next June.

Already, two defendants

accused last week to have received an offer from the Socialist party that they had not "laid into" the party.

The fact that former party presidents, ministers and a secretary-general of Nato are on trial will be seen as a symptom of the "Belgian illness," says Kris Deshoutter, professor of politics at the Free University of Brussels. "It will not be nice to watch. A lot of dirt will come to light."

The sense of pervasive corruption is reinforced by the way the bribery cases were discovered. Investigations into the still unsolved shooting of André Cools, another former Socialist deputy premier, in 1991, turned up evidence of payments of BFr51m (\$1.4m) by Agusta to the Socialists.

The payments were made

around the time Agusta unexpectedly won a BFr120m contract to supply 46 helicopters to the Belgian army.

Examination of the Swiss accounts of a Panama-registered front company involved in the Agusta payments in turn uncovered gifts to the Socialists from Dassault. The French defence group won a BFr54.4m contract in 1989 to upgrade Belgium's fleet of F-16 fighter aircraft by fitting them with Carapace anti-radar systems.

The resulting scandal has

several times burst out of the confines of Belgium.

Mr Claes, Belgian economics minister and a senior Flemish Socialist when the Agusta contract was

awarded, was forced to resign from his Nato post after only 13 months in 1985 – vigorously protesting his innocence – as the allegations mounted against him.

The Belgian investigation led to a probe of financing links between Agusta and the now-defunct Italian Socialist party, and the arrest of Roberto D'Alessandro, Mr Teti's successor as Agusta chief executive.

Mr Teti, who retired to Rio de Janeiro in 1988, spent months in a Brazilian jail before being extradited to Belgium in 1993.

Corporate gifts to Belgian political parties were legal before 1989, provided they were not given in return for favours. The task for the 15

magistrates of Belgium's Supreme Court – which normally hears only appeals but is judging this case since it concerns former ministers – is therefore to determine whether the payments really were bribes, and how much the defendants knew.

All the defendants deny

wrongdoing, and none is accused of benefiting personally from the payments.

The issue is that it is as much the 1980s Belgian political system on trial as the individuals themselves. Prof Deshoutter says the Socialist parties were simply unlucky to get caught.

"It happens to be these two parties" on trial, he says. "But it was an absolutely normal system that firms would pay in return for projects in Belgium. There was a very thin line between legal and illegal contributions."

He adds that the law has already been overhauled, making such payments a thing of the past. Corporate donations are outlawed with political parties now publicly funded.

In that sense, he adds, the trial really is of the Belgian political system of yesterday, not today. Many ordinary Belgians may not so clearly discern the difference.

TENDER NOTICE
UK GOVERNMENT EURO AND ECU TREASURY BILLS
For tender on 8 September 1998

1. The Bank of England announces the issue by Her Majesty's Treasury of euro 300 million nominal of UK Government Euro Treasury Bills, and ECU 700 million nominal of UK Government ECU Treasury Bills, for tender on a bid-yield basis on Tuesday, 8 September 1998. An additional euro 50 million nominal of Euro Bills will be allotted directly to the Bank of England for the account of the Euro Equivalents Account.

2. Bills to be issued by tender will be dated 10 September 1998 and will be in the following maturities:

ECU 200 million of ECU Bills for maturity on 18 October 1998.

ECU 500 million of ECU Bills for maturity on 10 December 1998, euro 300 million of Euro Bills for maturity on 10 March 1999.

3. The tenders will be open to anyone who wishes to apply. All tenders must be made on the printed application form available on request from the Bank of England or, in the case of the market makers tenders in the ECU 50 Information Memorandum and the ECU Bill Information Memorandum (as supplemented), by telephone. Completed tenders must be lodged, by hand, at the Bank of England, Customer Settlement Services, Threadneedle Street, London EC2R 7EP, by 8.30 a.m., London time, on Tuesday, 8 September 1998. Payment for Bills allotted will be due on Thursday, 10 September 1998.

4. Each tender at each yield for each maturity must be made on a separate application form for a minimum of euro 500,000 nominal or ECU 500,000 nominal respectively. Tenders above this minimum must be in multiples of euro 100,000 nominal or ECU 100,000 nominal respectively.

5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount tendered for.

6. Notification will be despatched on the day of the tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bills, tenders will be sent to their account with Euroclear Central Securities Depository and will be confirmed in writing against payment. The applicants who have requested definitive Bills will be available for collection at Customer Settlement Services, Bank of England after 1.30 p.m. on Thursday, 10 September 1998 provided cleared funds have been credited to the Bank of England's ECU Treasury Bills Account No. 59000516 with Lloyds Bank PLC, Bank Relations, St George's House, PO Box 787, 8-8 Eastcheap, London EC3R 1LL. Definitive Euro Bills will be available in amounts of euro 10,000, euro 100,000, euro 1,000,000 and euro 10,000,000 nominal. Definitive ECU Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 10,000,000, ECU 500,000, ECU 1,000,000, ECU 5,000,000 and ECU 10,000,000 nominal.

7. Her Majesty's Treasury reserves the right to reject any or part of any tender.

8. The arrangements for the tender are set out in more detail in the Information Memorandum on the UK Government Euro Treasury Bill programme issued by the Bank of England on behalf of Her Majesty's Treasury on 7 July 1998. The Information Memorandum on the UK Government ECU Treasury Bills programme issued by the Bank of England on behalf of Her Majesty's Treasury on 26 March 1998, and in supplements to the ECU Bill Information Memorandum. All tenders will be subject to the provisions of the Information Memorandum (as supplemented) and to the provisions of this notice.

9. The euro 50 million of Euro Bills to be allotted directly to the Bank of England for the account of the Euro Equivalents Account will be for maturity on 11 March 1999. These Bills may be made available through sale and repurchase transactions to market makers in order to facilitate settlement.

10. Copies of the Euro Bill Information Memorandum and ECU Bill Information Memorandum (and supplements to it) may be obtained from the Manager, External Debt, Foreign Exchange Division at the Bank of England (telephone number 0171 601 5982). UK Government Euro Treasury Bills and UK Government ECU Treasury Bills are issued under the Treasury Bills Act 1977, the National Loans Act 1958 and the Treasury Bills Regulations 1998 as amended.

Bank of England
1 September 1998

Khartoum to probe ownership of factory targeted by US

By Mark Hubert in Cairo

Sudan's government is to investigate the ownership of a pharmaceutical factory in the capital which was destroyed in a US missile attack on August 20 amid US allegations that chemical weapons were being manufactured on the site.

Sudan has denied US government claims that the al-Shifa factory is linked to Osama bin Laden, the Saudi Arabian dissident whose headquarters in Afghanistan was attacked at the same time as the Khartoum strike.

The resulting inquiry comes a week after President al-Bashir stated at a press conference that "Osama bin Laden has no share in this factory".

Sudanese officials have made it clear who they believe the owner to be, but remain keen to exploit the apparent paucity of US evidence to justify the attack by adopting a transparent approach towards the issue.

The government's inquiry follows what amounts to a refusal by the United Nations to send a fact-finding mission to Sudan to establish the truth about the factory's role. The US has been widely criticised for

offering unconvincing evidence that the factory produced precursors for VX nerve gas. Soil samples the US says were taken from the site before the attack are of uncertain quality as proof, independent scientists have concluded.

Determined to further dent

US credibility, a Sudanese delegation yesterday defied UN sanctions on Libya when it flew on a Sudan Airways flight direct to Tripoli at the invitation of Muammar Gaddafi, the Libyan leader.

The flight took place as Taha Yassin Ramadan, Iraq's vice president, visited the bombed factory.

However, Mylan has not been alone in pushing through extraordinary price rises on elderly, and unpredictable, generic drugs.

Other examples are a 316 per cent increase on generic clorazepate produced by Watson, and a 58 per cent rise in the cost of the drug zopiclone from Duramed. IMS now predicts a "substantial rise" in the US producer price index for pharmaceuticals this year.

Meanwhile, the government-mandated price cuts on

prescription drugs in Japan has had precisely the opposite effect. According to IMS, the country's total prescription drugs market contracted by 4 per cent in the year to May. This has been reflected in company results.

Hoechst Marion Roussel and Bayer of Germany are just two of the pharmaceutical companies to have reported serious setbacks in their drug sales as a result of the Japanese price cuts.

In Europe, the average growth in the region's five largest markets remained steady at 5 per cent.

Across the 12 largest drugs markets, central nervous system drugs reported the most rapid growth.

World retail pharmacy purchases 12 months to May 1998

Ge	US	Japan	Germany	France	UK	West	Spain	Canada	Australia	Other	Total
Cardiovascular	15,000	7,200	3,600	3,000	1,800	1,800	1,000	1,000	200	800	42,600
Alimentary/Respiratory	11,200	6,000	2,300	2,000	1,200	1,400	1,100	700	600	1,000	37,400
Central Nervous System	14,300	2,600	1,700	1,600	900	1,100	800	700	400	500	35,700
Anti-infectives	5,900	4,000	1,200	1,500	1,100	600	700	500	200	400	18,200
Respiratory	7,000	2,000	1,200	1,000	1,000	700	500	500	200	200	18,

BRITAIN

NORTHERN IRELAND REPUBLICANS' OLIVE BRANCH AHEAD OF CLINTON VISIT FALLS SHORT OF SAYING 'THE WAR IS OVER'

Sinn Féin pledges to help end violence

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Gerry Adams, the Sinn Féin president, yesterday offered an olive branch to Northern Ireland's unionists, committing his party to making violence "a thing of the past, over, done with and gone".

The statement falls short of declaring that the Irish Republican Army's war is over, as unionists have demanded, but Mr Adams went further than ever before to renounce republican violence. Sinn Féin is the political wing of the IRA.

The announcement came

as the UK government unveiled anti-terrorist legislation aimed at rooting out the Real IRA, the breakaway paramilitary group which claimed responsibility for the death of 28 people in last month's Omagh bomb.

The bill, to be scrutinised today by MPs who have been recalled to parliament for two days of emergency debate, is intended to crack down on a handful of fringe terrorist organisations in Northern Ireland and make life harder for international terrorist groups operating out of the UK.

One unexpected clause is

that all prosecutions for involvement in a conspiracy to commit a terrorist act outside the UK will require the consent of the Attorney General.

Sinn Féin's move, timed to coincide with President Bill Clinton's visit to the region tomorrow, was welcomed as a significant advance by governments of the UK and Republic of Ireland.

David Trimble, Northern Ireland's first minister and leader of the Ulster Unionists, the biggest pro-British party in the region, was more cautious. "Carefully crafted words alone are not

enough," he said, adding that the people of Northern Ireland would judge Sinn Féin on its actions.

David McNarry, a unionist assembly member and a leading member of the Protestant Orange Order, said: "It's a start, but we've heard this before. It's probably a bit of window dressing before the Clinton visit."

Mr Adams' declaration condemned the Omagh bomb "without equivocation" and called on all sides to ensure that it was "the last violent incident in our country".

"Sinn Féin believe the violence we have seen must be

for all of us now a thing of the past, over, done with and gone. In particular, the two governments have the principal responsibility, as do the party leaders. I am committed to play my part, as is Sinn Féin," Mr Adams said.

In the draft anti-terrorism legislation published yesterday, the UK government appeared to have responded to civil liberties concerns. The law will be subject to annual renewal and the evidence of a police officer on membership of a proscribed organisation will require further corroboration.

The Dail, the Irish

national assembly, is also due to debate similar changes in its anti-terrorist legislation, giving powers to the police to bring prosecutions against renegade republicans and other groups opposed to the peace agreement.

Unlike in the UK, there has been little opposition to the measures on human rights grounds. The Irish government, sensitive to suggestions the Real IRA was organising its activities in the republic, was first to outline the proposals, which were then matched by the UK government.

Ireland ranks high among Clinton's global priorities

The peace process is seen as a foreign policy success, despite difficulties elsewhere. Stephen Fidler reports from Washington

The day before testifying to a grand jury about his relationship with Monica Lewinsky, President Bill Clinton had an extensive telephone conversation with Tony Blair, the UK Prime Minister.

The call - concerning the previous day's bomb attack in Omagh in Northern Ireland and its effect on the peace process - lasted half an hour, according to British officials, even though Mr Clinton's lawyers were reportedly anxious to rehearse the following day's oral.

Samuel Berger, the president's national security adviser, the next day telephoned Irish leaders including Gerry Adams, president of Sinn Féin, the political wing of the Irish Republican Army.

The calls, and Mr Clinton's visit this week to the north and south of Ireland, reveal the extent to which the

administration remains committed to what it sees as an important foreign policy success.

On his trip to Russia, which precedes the Irish visit, Mr Clinton is being accompanied by four members of Congress, two from each house. In Ireland, he will be joined by a further 17 legislators.

James Steinberg, Mr Berger's deputy at the National Security Council, says the visit - which in Northern Ireland will take in Belfast, the capital, Omagh and Armagh before heading south of the border - has three main purposes.

They are to "pay tribute to the courage and determination of the leaders and the people of Northern Ireland and the republic for making the agreement possible"; to show support for the new political arrangements, especially the assembly; and to back the peace process eco-

nomic by helping to attract investment and jobs.

Asked if the US would press for a meeting between David Trimble, first minister in the new assembly, and Mr Adams, Mr Steinberg said it was important for all of the parties to the peace process to begin to work together.

"We would certainly hope that Mr Trimble and Mr Adams have a chance to meet," he said.

The UK government has been seeking US help in a number of areas following the Omagh bombing. Washington quickly revoked the visa of Bernadette Sands-McKevitt - sister of IRA hunger striker Bobby Sands, who died in prison in 1981

becoming a republican folk hero - and making clear that members of her 32 County Sovereignty Movement would not be welcome in the US. That group is viewed by the US as the political mouthpiece for the Real IRA, the perpetrators of the Omagh bombing in which 28 people died and more than 200 were injured.

British ministers have also

urged the Clinton administration to use its undoubted influence with Mr Adams to press him - and the IRA - on two important questions.

The first relates to the "decommissioning" of weapons, a subject that has taken on added weight after Omagh. The second is to persuade Sinn Féin and the IRA to share information they are

believed to hold that could help track down the bombers.

A hint that the US may already have made these points - and that Mr Clinton may be expected to repeat them either privately or publicly on his visit - has already emerged.

IRA leader has given a rare interview which will appear soon in An

Phoblacht-Republican News, the Irish nationalist weekly journal, but which was released early for publication in US newspapers.

He denied that the IRA had any link with those responsible for the Omagh bombing and calls for the breakaway group to disarm. "They should disband, and they should do so sooner rather than later," he said.

AP

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The audit of the site began on June 1, after an incident that left the fuel cycle area without its normal electricity supply for 16 hours. The

area is not currently in operation and processing activities will not resume until the inspectors agree that an adequate safety case has been made.

The UKAEA said it took the report very seriously. It plans to publish a programme for implementing the work recommended in the report by the end of November.

'Chronic safety problems' found at nuclear plant

By Vanessa Houlder in London

An audit of the Dounreay nuclear plant in northern Scotland has uncovered "many chronic safety problems", the Health and Safety Executive said yesterday.

The watchdog said the site is currently safe. But the United Kingdom Atomic Energy Authority, which operates it, needs to invest

"considerable effort, time and resources" to bring it up to standard, said Laurence Williams, the HSE's chief inspector of nuclear installations. A culture change was needed at the UKAEA, which needed to adopt fully the necessary standards and targets "rather than attempting to do the minimum necessary", he said.

The report's main finding

concerned management and technical shortcomings and their impact on decommissioning. A culture change was needed at the UKAEA over the last four years have so weakened the management and technical base at Dounreay that it is not in a good position to tackle what is now its principal mission - the decommissioning of the site", Mr Wil-

liams said.

The audit also criticised an "overdependence" on contractors for many key functions which should be under the clear control of UKAEA. There was also concern that the UKAEA had not yet developed a comprehensive strategy for dealing with radioactive waste.

Conditions in the fuel cycle area ranged from the

good to the very bad, the report said. "While HSE is satisfied there is no imminent danger, it is suspect that UKAEA had been operating plants without clear knowledge of some of the risks," it said.

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OBITUARY SIR GORDON NEWTON

A great editor who took the FT from City into the wider world



Gordon Newton in 1950 shortly after he had been appointed editor

Sir Gordon Newton, who died on Monday at the age of 91, was one of those rare individuals whose whole career can be summed up in three words: a great editor. At this singular activity, in 22 remarkable years, he showed consummate skill and achieved unquestioned success. He turned the Financial Times, his consuming interest, from a City sheet selling 50,000 copies a day into a world-ranking economic and political newspaper with almost four times that circulation.

Views inevitably differed on Newton the man, but his admirers (who were legion) and his critics (who were few) thought alike of Newton the editor. He was intuitively, painstakingly brilliant at his job; and his powers of punch and unremitting, dedicated concentration had their full reward.

Nothing in Newton's background gave an indication of his future career. He was born in 1907 into a business family (the company made glass and mirrors, but failed in the pre-war slump of the 1930s), which might seem appropriate for a future financial journalist. But in truth Newton had no great instinct for business. The prime lessons he learnt from his own commercial career were those of failure.

After the bank took over his father's company, Newton on his own just survived the rough-and-tumble of making mirrors for furniture in Bethnal Green. But then he lost his capital completely in retailing car accessories. These experiences must powerfully have reinforced Newton's innate competitive drive, developing his lifelong identification of success with measurable achievement, and nothing short of that. But to those who knew him only as a great editor, those early days were a closed

book. Newton rarely talked about himself. When he did it was a surprise to learn that he was a science scholar at Blundell's, a renowned schoolboy runner, and a talented violinist. Even the fact that he had been to university (to read economics at Cambridge) was not obvious to all the young men and women he recruited from Oxbridge. While Newton was undeniably a journalist of genius, his genius, like his education, did not reside in literature. As an editor he wrote few words - and those with difficulty. Yet when he landed a post on the then Financial News (at the age of 28, after a dispiriting spell of stump-time job-seeking), he rapidly became a writer. He would recall that he had often written a news story, a feature, a Lex note and an editorial all in one day.

His capacity for hard work was reflected in his rapid promotion - a policy that, later on, Newton, as editor, loved to apply to others. He was news editor by 1939, when he enlisted in the Territorial Army and began another successful career as a wartime soldier. But his connections with the newspaper were not broken: a third of his salary (£750 a year when he left) was paid in pound notes, throughout his army service. His FT boss, Brendan Bracken, then at Churchill's right hand, noticed and approved when Newton, newly commissioned, refused a special mission from Downing Street that would have taken him out of the army. He became a distinguished gunner, entrusted with the proximity fuse that shot down the German doodlebug as they reached the English coast.

After Bracken engineered the merger of the Financial News and Financial Times in 1945, the demobilised Newton again filled important jobs. But Bracken's inspired choice of this 42-year-old to edit the merged paper in 1949 was apparently less than obvious to his contemporaries. Certainly, Newton's innate toughness was severely tested in those early, difficult, 14-hour working days: the effects on his personality were still visible in the 1960s.

Taut, tooth-tapping, and laconic in conversation, he was not easy to know, and often not easy to work for - especially if the work slipped below his perfectionist standards. Yet Newton was far from being an abrasive character. To anybody in personal trouble, or to whom he had been harsh, he could be kind and inspiring.

Newton's loyalty. Only his ill health eventually brought an end to the annual dinners held in his honour for many years after his retirement by those whom he had hired and inspired.

The answer seldom stimulated any very informative discussion. But Newton acquired an equally legendary reputation as a judge of what the journalist eventually produced. He worked closely with Brendan Bracken; not until the latter part of Lord Bracken's life, dogged by relationship deterioration, as the editor came to resent what he saw as his chairman's obstructionism. The relationship with Lord Droghead, the chief executive during Newton's editorship and for some years thereafter, was not free from creative tension but it remained productive throughout.

In another paradox, the aristocratic, cultured charm of the chairman seemed incompatible with the editor's plain-man, all-business exterior. But the two men, and with them the editorial and commercial sides, were always in harness, never in competition, as they exploited the long post-war rise in business and financial advertising that underwrote Newton's progressive, never-ending improvements in the paper.

That harmony accurately reflected Newton's extreme pragmatism. As an editor, he was totally absorbed in practical details of production and lay-out, news and coverage. He never forgot his first duty was to the readers of the next morning's paper; he would simply ignore any diversion that might conflict with his primary tasks. His desk always seemed empty, his door open. Meetings with him were nearly always short, sharp and to the point. He always seemed to

have time for a leisurely stroll in and out of the offices, peering over a journalist's shoulder with his legendary question: "What are you on?"

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COMMENT & ANALYSIS

As he drives around Moscow today, Bill Clinton, the US president, will still be able to see relics of the economic transformation which, until the spectacular collapse of the past few weeks, had been hailed by Washington as a major foreign policy success.

Shiny foreign cars choke the city's main streets, designer clothes adorn brightly lit shop windows and colourful billboards cater to the ostentatious tastes of the nouveau riches. It might be a bit vulgar and a bit wild, but it is an infinite improvement on the Soviet era and a sign that, at least in Moscow, the market economy had taken hold.

Now, even that is in doubt as the country's mounting financial crisis eats into the real economy. Bank machines, one of the more visible achievements of the new, sophisticated Russia, no longer dispense cash and credit cards are no longer accepted as many banks close their doors. More worryingly, this is being followed by an erosion of the economic basics, as shop shelves empty and cash drains from the economy.

Add to that the immense political uncertainty caused by President Boris Yeltsin's sacking of his government, and suddenly nightmare scenarios are being raised as serious possibilities. Could the political and economic crisis lead to the rise of a military dictator, or the collapse of the country into feuding regional fiefdoms? How quickly is economic collapse likely to spread, and might this provoke Russia's long-suffering population in popular revolt?

Certainly, what began as a rather esoteric financial crisis has swiftly spun into a broader economic meltdown, throwing the currency into limbo, paralysing the banking system and blocking the delivery of goods and services. As if this were not enough, things will probably get worse before they get better. The devaluation of the rouble and a wave of soft central bank credit mean that a sharp jump in inflation - to an annualised rate of 30 per cent at least - is inevitable. Even more extreme price increases,

How bad can it get?

Chrystia Freeland examines the spread of Russia's financial crisis into the real economy and asks whether this could provoke a popular uprising



approaching hyperinflation, could be in store if the government gives in to widespread pressure to release more soft money.

"This crisis is extremely serious because it touches on every aspect of the Russian economy," argues Sergei Markov, director of the Institute of Political Studies, a Moscow-based thinktank. "It is a currency crisis - the rouble has devalued; it is a capital markets crisis - the financial markets are dead. It is a crisis of investor confidence in Russia. And, most fundamentally, it is a crisis of the real economy - Russia doesn't work."

The real economy is key to the way Russia's drama will unfold. And the news is not good. After nearly a decade of haphazard reform, Russia's capitalism was only

half-finished. Now, this fragile market economy is being battered from all sides.

Already, the problems are visible on Moscow's shop shelves. At Marina, a grocery store in the centre of the city, the meat shelf is almost bare. Uncertain how to price goods because of the rouble's volatility and wary that the crumbling banking system will fail to deliver payments, the three Moscow-region meat-packing plants that supply Marina have this week refused to deliver.

"No one at the meat-packing plants even answers the phone," says Mikhail Borisovich, the store's manager. "They are afraid to sell. They don't know what price to charge, so they've just vanished. We have the same problem with many of our imported goods, like fro-

zen foods. Our distributors have simply stopped shipment. They are waiting for the situation to stabilise."

Even big western consumer goods companies are feeling the squeeze. Unilever, which produces deodorant, shampoo, margarine and salad dressing in Russia for the domestic market, said this week that orders for its goods had almost dried up as distributors stopped ordering goods.

The same pressures are battering the manufacturing sector. Companies which had divined how to keep afloat in Russia's swamp of non-payments and barter are finding that their access to cash - what Russians call "live money" - is drying up altogether.

"For all the arrears and barter, we had a financial

plan and we counted on receiving a bit of real money," says Kaka Bendikida, owner of several Russian factories, including Uralmash, one of the country's biggest machine-building plants. "Now the plan has broken down because money has vanished from the country. The metallurgical plants or oil companies which bought our machines lost their money in treasury bills or banks and so now they cannot pay us."

The deterioration of Russia's already shaky economy cries out for forceful government action. But Russia's political system has proven to be just as weak as the country's economic foundations. Within days of the start of the financial crisis, Mr Yeltsin sacked the gov-

ernment, plunging the country into a political vacuum. This has undermined all three branches of federal authority at once, leaving Mr Clinton unsure as to who really holds the reins of power. The president faces calls for his resignation and the threat of impeachment. The parliament risks being dissolved. And the government, denied legislative approval this week, barely exists at all.

As the powerbroken quarrel in Moscow, the authority of the state continues to crumble. The Kremlin's ability to collect taxes, one of the defining qualities of a national government, has been feeble for years and is one of the causes of the economic turbulence in the first place. Now, it is weakening still further as the sclerosis

of the banking system makes it physically even harder to collect taxes.

This practical problem is compounded by a psychological one. Humbled by the financial crisis and riven by infighting, the federal government is fast losing its political authority across the country. Regional leaders, who have long been reluctant to surrender locally collected revenues to Moscow, are daring outright defiance.

Last week, for example, the leader of Yakutia, a resource-rich Siberian province, banned local gold producers from sending the precious metal to Moscow, ordering them to state it in the local government's vaults instead.

Indeed, at the top, weak state institutions, an economy that could be slipping into hyperinflation - this looks like a textbook recipe for popular revolution, or at least a palace coup. Even a senior Kremlin official this week warned that Russia could be on the brink of a "popular uprising".

It is a tempting argument to make. Russian workers, unpaid for months, had begun to take direct action even before the crisis. This spring, irate coalminers repeatedly blocked railway lines to protest over wage arrears. In depressed cities such as the far-eastern port of Vladivostok, strikes and demonstrations by public sector workers, ranging from teachers to ambulance staff, have become a weekly event. Underpaid and sometimes underfed, individual soldiers have taken to shooting their commanding officers.

The ranks of this mob of unpaid workers and angry conscripts have now been swollen by a middle class whose savings were eradicated by last month's double devaluation and banking crisis. And if, as in Albania after the collapse of the pyramid scheme, this financial blow finally breaks the legendary patience of the Russian people, a popular revolt will have no shortage of leaders. Alexander Lebed, the former general turned Siberian governor, Yevgeny Primakov, the energetic mayor of Moscow, and a host of obscure nationalists and communist hardliners are all but openly auditioning for

the job.

But if Mr Lebed or Mr Luzhkov ever make it to the Kremlin, it is more likely to be through the ballot box than on the back of another Russian revolution. Although Russians certainly have cause to protest, several factors make it unlikely that the complaints of ordinary people will unseat the current establishment.

For one thing, in contrast with Indonesia, where student and Islamic groups mobilised a disaffected populace, or Imperial Russia, where the Bolshevik party machine channelled popular unrest, Russia lacks national organisations able to transform amorphous discontent into political change.

Another obstacle to outright revolution is the talents and resources of Russia's economic establishment. The country's biggest businessmen used their political skills and control of the airwaves to persuade a reluctant Russia to re-elect Mr Yeltsin in 1996. Those same structures will today be deployed to prevent a total overthrow of Russia's current rulers.

Finally, in a country as large as Russia, revolutions are won and lost in the capital city. And even though the coming wave of inflation and shortages will make Moscow a bit grayer than it has been recently, for now, Muscovites are too comfortable to make good revolutionaries.

Even the soggy coalminers camped outside the White House, the government building in Moscow, admit a revolt is unlikely. Many Muscovites, they say, sympathise with the ferocious declarations of the red banners decorating their camp - "All Our Ministers Are Bastards!", "Yeltsin, Resign!" - but they are unlikely to help overthrow the establishment.

"We are standing here, trying to wake up Russia, but it is very hard to do," says Ramil Gashygalin, a miner from the far northern city of Vorkuta who has been camped outside the White House for nearly three months. "Moscow will never wake up. It's too calm, people live too well. And as for the rest of Russia, well, it's a big place and it's hard to make ourselves heard."

LETTERS TO THE EDITOR

West must abandon this bloodless colonialism

From V. Anantha-Nageswaran

Sir, Martin Wolf's article "Threats of depression" (August 26) raises a few interesting questions. First, it shows up the misplaced inflation concerns of central bankers in the US and in the UK. Not that there is no risk of higher inflation in these two economies, but there are more pressing and calamitous risks than merely seeing inflation rise from 1.5 to, say, 2.5 per cent. Second, if equity markets in the west do hold up and thus prevent their economies from collapsing, it would merely underscore the dramatic widening of the economic gulf between the west and the developing economies within a span of 12 months.

When per capita income (measured in US dollars) sinks tenfold as it did in Indonesia and western economies benefit from rock-bottom commodity

prices, low inflation and interest rates, it ought to result in a serious re-examination of business practices (of lending institutions), economic policies (international trade and capital market liberalisation) and the sequencing of economic reforms pursued by the International Monetary Fund at the behest of its major shareholders. It is well-known that political stability and institutional framework, prudent and well-functioning fiscal and monetary policies and a well-regulated and capitalised banking system and efficient capital markets are preconditions for a country to enjoy the benefits and withstand the pains of open capital markets. Would it not have been, therefore, prudent for the IMF to ensure that these were put in place before it pushed through financial liberalisation in developing countries with a fanatical zeal?

Western lenders lend recklessly in good times and, when the loans fail, they are bailed out, stringent and contradictory conditions are imposed on the borrowing governments, asset prices collapse and a vast majority of the population is made poorer. Foreign investors then walk into markets prised open for them by the IMF and pick up assets cheaply. This modern, bloodless colonialism is very real.

If there is some truth in the above analysis, the implications for western monetary policymakers are obvious. They should, at least temporarily, abandon chasing the ghost of inflation. This would allow their economies to grow and be able to absorb imports from countries looking to export their way out of trouble. The IMF should roll back some of its absurdly stringent conditions imposed on borrowing governments, abandon its insistence on capital market liberalisation in the borrowing countries, work to strengthen institutional mechanisms and other pre-conditions necessary for economies to benefit from open capital flows.

Western investors should respect local sensitivities as they acquire assets cheaply in emerging markets. Their governments should resist calls for protectionism at home when cheaper goods from the recovering economies start arriving. If they all ignore this advice, their children may read in their history books that the triumph of capitalism over communism lasted only for a brief period in the last decade of the 20th century.

V. Anantha-Nageswaran
Credit Suisse Private
Banking
General Wille Strasse 48,
8708 Feldmellen,
Switzerland

BA best placed for risks

From Mr Nick House

Sir, Lex suggests ("British Airways/Airbus", August 26) that BA's aim in negotiating its deal for new aircraft includes shifting the risk of ownership back towards the supplier. This reflects an increasing trend for businesses to avoid the risks of ownership of assets, notably through passing the risk to financial institutions through various types of operating lease. But is this sensible from the point of view of particular businesses or as a method of handling the risk more generally?

It is a good axiom of risk management that risks are best taken by the person with the greatest knowledge and ability to control them. In this way the costs of hedging such risks are kept to a minimum, as someone who does not understand the risk ought to extract a high price to cover for situations that could go wrong.

In the case of BA, there is a strong case for saying that, as a leading user of aircraft,

BA is in the best position to manage the risks of ownership. Not only will it understand what is driving future residual values, it is also in a position to time the sale of second-hand aircraft by using them a little bit longer or shorter to ensure that they are sold into the best marketplace. Suppliers or financial institutions cannot do this anything like as easily as a user.

Moreover, BA gives up not only the risks of ownership but also the costs of from getting the timing right to sell aircraft at a profit. It may well be that BA is seeking to negotiate a share of any upside in residual values, but theoretically at least this should only push up the cost of paying for the risk being taken by the supplier.

Nick House,
risk director,
Barclays Merchantile,
Churchill Plaza,
Churchill Way,
Basingstoke,
Hants RG21 7GL, UK

Ads on the internet can produce a click-through rate to die for

From Mr Ray Taylor

Sir, "Net ads fail the soap test" (August 28) expresses the view that internet advertising banners "rarely attract more than a glance". One wonders, then, why the Financial Times continues to offer internet advertising services on its own web site, [ft.com](http://www.ft.com).

There is no evidence quoted to illustrate points such as: "Even banner ads for exciting, internet-related products and services produce lamentably few clicks." In fact, a good internet advertising campaign will typically produce click-through rates of between 1 and 5 per cent - the kind of response direct marketers would die for.

The truth is that a properly managed internet advertising campaign can produce very good response from the right kind of audience. True, the medium is highly experimental when compared with established media. But it is already the fastest-growing new medium of all time.

Ray Taylor,
director,
NMC/Adplan,
77 Stanhope Grove,
Beckenham, Kent, UK

Consultants with a prior claim

From Jan Harrington

Sir, Lucy Kellaway claims that Florence Nightingale was the world's first management consultant (August 31). I think the following are earlier candidates with at least as good a claim: Sun Tzu, whose book *The Art of War* is still a bestseller, and Machiavelli, whose book *The Prince* is full of management consulting ideas.

Jan Harrington,
PO Box 748,
New York,
NY 10116, US

The challenge
for the ECB

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FINANCIAL TIMES

WEDNESDAY SEPTEMBER 2 1998

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THE LEX COLUMN

D for dominoes

The slide in global markets may have come to a temporary halt. But they are still haunted by three "Ds" - default, dominoes and deflation.

Yesterday Malaysia ratcheted these fears up a notch by imposing exchange controls. In itself, the Malaysian economy (like Russia's) is too tiny to have much direct impact on Europe or the US. The concern, rather, is that it could trigger copycat action in other emerging markets - particularly with respected academics like MIT's Professor Paul Krugman advocating capital controls.

Malaysia is, in effect, telling shareholders that their money is trapped for a year. That is not quite as bad as Russia's defaulting on its debts, but it comes a close second. Investors, such as hedge funds, need to sell Malaysian stocks to meet margin calls will not be able to do so.

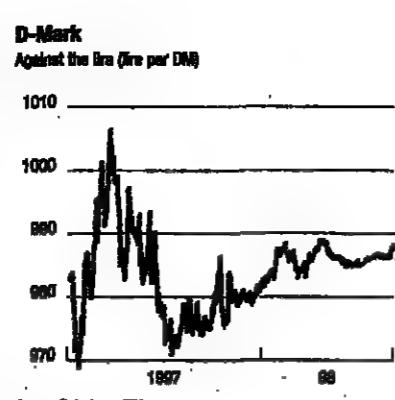
Moreover, now that even Hong Kong is fiddling with the operation of free markets, policy measures that only a few weeks ago would have been unthinkable cannot be completely discounted. The probable effect will be to accelerate the capital flight from emerging markets.

Default

Losses by hedge funds or banks are, in themselves, no reason to weep. It could teach them the welcome lesson that they cannot rely on the International Monetary Fund to bail them out of difficulties. The snag is that defaults by hedge funds, or, even worse, banks would raise the spectre of contagion spreading to the heart of the developed world.

The red flag was raised over Hong Kong yesterday when several of the territory's banks were downgraded by credit rating agencies. With high capital adequacy ratios and a low level of non-performing loans, there is no immediate danger. But asset prices are still falling and the credit crunch is triggering more business failures.

Banks in the UK and the US are still less vulnerable, since bank balance sheets are strong after several years of good profitability. They may be losing money: Britain's Barclays Bank, for example, yesterday revealed £20m losses in Russia and another £70m elsewhere. But that is still small beer in the context of its £20bn



market capitalisation.

Continental European banks look more exposed. German banks, for example, have large loans out to Russia. But a high proportion of these is covered by the state-backed Hermes insurance scheme.

That said, there is still a chance that a second-tier bank somewhere in Europe could find itself caught short. Normally, that would not matter too much - the responsible central bank could either provide liquidity to the struggling bank or close it down and provide liquidity to the rest of the system. Unfortunately, in the current interregnum before economic and monetary union, it is not clear who would act as a lender of last resort. With luck, Europe's central bank governors will have put in place some contingency plan at their meeting yesterday.

The global turmoil has also raised new questions about whether the Euro project itself could be vulnerable. Some jitters are visible in the wobble of the Italian lire versus the D-Mark, but the shift has not been large. Anyway, Europe's central banks have the capacity to defeat any speculative attack - provided political backing for the project remains solid.

And, given the buffering experienced by other economies, the protection afforded by Euro's cordon sanitaire must seem all the more attractive.

Deflation

Though there is little chance of Europe or the US themselves facing a financial crisis, the backdrop is negative. Outright

recession or deflation is not at this stage likely. But growth is bound to take a knock.

The biggest concern is in the US. The dangers of a virtuous circle turning vicious are obvious. With the bulk of this year's stock market gains wiped out, US households may choose to curtail spending, hurting the real economy and leading to further falls in equity prices. So far, US retail investors seem to be holding their nerve. The worry is the market's turmoil will bring about a psychological shift in investors' thinking. With fundamentals so uncertain, any significant rally could well trigger widespread selling.

This reverse "wealth effect" is likely to be less in Europe, where stock market investment by private individuals is not as important. Indeed, given Europe's penchant for holding bonds - whose prices have soared - there could conceivably be a positive impact. But that is small comfort. If Wall Street takes another lurch forward, Europe will follow.

M&A

Wall Street's investment bankers must be hanging on to their hats. Most of this year's big all-share mergers are deep under water - with some of them just weeks from closing. Citicorp's stock, for instance, has fallen 37 per cent since it announced its April marriage to Travelers, which is itself down 31 per cent. BancOne and its partner, First Chicago NBD, have each lost more than a third of their value. But as long as their stocks fall in tandem, as most have, the spread between the offer and the target's price is not materially changed. Investors in either company are thus unlikely to press for a renegotiation of terms, unless one party reveals concrete bad news - as happened in the Ciena/Telstra deal.

Stock market volatility has also closed the market for initial public offerings. But the summer is a quiet period to any case. The real test will come later this autumn, with big offerings like Goldman Sachs and DuPont's Conoco spin-off. Investors will continue to have an appetite for high-quality companies. Prospects for blue-sky technology issues, like internet stocks, are much less certain. But the pricing of all offerings will be affected by the recent turmoil.

Malaysia pulls ringgit out of currency markets

Investors react swiftly as Mahathir imposes draconian controls

By Sheila McNulty in Kuala Lumpur

Malaysia's prime minister, Dr Mahathir Mohamad, imposed stringent currency controls yesterday to pull the ringgit out of international financial markets.

Dr Mahathir also announced draconian restrictions on currency holdings by Malaysian residents and foreigners in an attempt to regain authority over his deteriorating economy.

Foreign investors reacted swiftly, pushing the benchmark stock index down 18 per cent to 262.70 points - almost 80 per cent lower than its pre-crisis peak.

"People can no longer stay with the free-market system," Dr Mahathir said. "The world is not moving ahead, it is moving backwards."

Malaysia has banned the trading in ringgit instruments among offshore banks and stopped Malaysian institutions offering domestic credit facilities to non-resident banks and stockbroking companies.

He announced that the M\$100m in

cash circulating outside the country must be repatriated within one month or it will have no value.

Residents cannot take more than M\$10,000 worth of foreign currency out of the country. They require prior approval to make payments to non-residents to invest abroad more than the equivalent of M\$10,000 in foreign currency.

Foreigners who sell shares cannot repatriate earnings for a year. Dr Mahathir said. At the same time, travellers cannot bring in or take out more than M\$1,000 cash. Payment for all exports and imports must be made in foreign currency.

The currency controls are so comprehensive - and unorthodox - that a row last week over their implementation prompted the resignation of Ahmad Mohamed Don as central bank governor, and that of his deputy, Wong Weng Phak.

The ringgit strengthened as investors rushed to cover short positions, but then trading halted as offshore dealers attempted to determine how they will settle trades under the new system that brings all trading

onshore. Offshore banks simply stopped quoting the ringgit.

Economists suspected a fixed exchange rate would come next and Dr Mahathir alluded to it. But the central bank insisted the value of the ringgit would be determined by market forces.

"This is definitely a step backwards," said Paul J. Alapati, senior economist at Indosuez W.L. Carr Securities. "It is an effort to close the doors and inflate the economy."

Some economists suspected the plan might work in the medium term if those with ringgit abroad bring it back instead of converting it into foreign currency, and no more outflows are permitted. But, either way, reforms of the banking and corporate sectors must take place.

"It's not a long-term sustainable solution," said Neil Saker, head of economic research at SG Securities. "Over time, the growth impetus will start fading away."

See Lira
Markets have failed, Page 3
Editorial Comment, Page 11

US government accuses Microsoft of intimidating other sector giants

By Richard Wolffe in Washington and
Louise Kuo in San Francisco

The US government broadened its legal attack on Microsoft yesterday by accusing the world's largest software company of trying to intimidate sector giants to protect its monopoly position.

In court filings published yesterday, the justice department and 20 state attorneys-general shifted their case away from the battle over the marketing of internet software and towards Microsoft's monopoly position in the wider computer industry.

The government said the company had sought to stop Intel, the world's largest microprocessor producer, from developing its own software. It also said Microsoft further attempted to stop Apple, its bitter rival in operating systems, from marketing internet video software in competition with its own.

Microsoft's attempts to win agreements with rivals was "part of a

pattern of using its control over the monopoly operating system to make competing products operate, or appear to operate, less effectively", the government said.

The government's arguments mark a turning point in nine years of antitrust investigation of Microsoft and litigation, initially by the Federal Trade Commission and then by the justice department.

In its initial lawsuit, filed in May, the government accused the company of attempting to stifle Netscape Communications, Microsoft's internet software rival.

The government had hesitated to broaden its case, partly because of the difficulty of devising remedies that would prevent continued alleged abuses. A break-up of the company, for example, could have substantial negative effects throughout the US computer industry.

The new allegations come as the government is attempting to bolster its case. However, much of the

page document was a response to Microsoft's motion to have the case dismissed as well as the company's arguments concerning its activities in the browser market.

The government also accused Microsoft executives - particularly Bill Gates, its founder - of "an astonishing lack of recall" in interviews about their actions.

Microsoft dismissed the new allegations as "groundless" and said it was "unfortunate that the government had lost faith in the substance of its case and was now resorting to gratuitous name-calling".

"All of our executives have been very co-operative with the government investigators and answered every question to the best of our abilities. It is clear that the facts do not support the government case, so it is not surprising that the government does not want to hear the facts," it said.

Justice department widens net, Page 7

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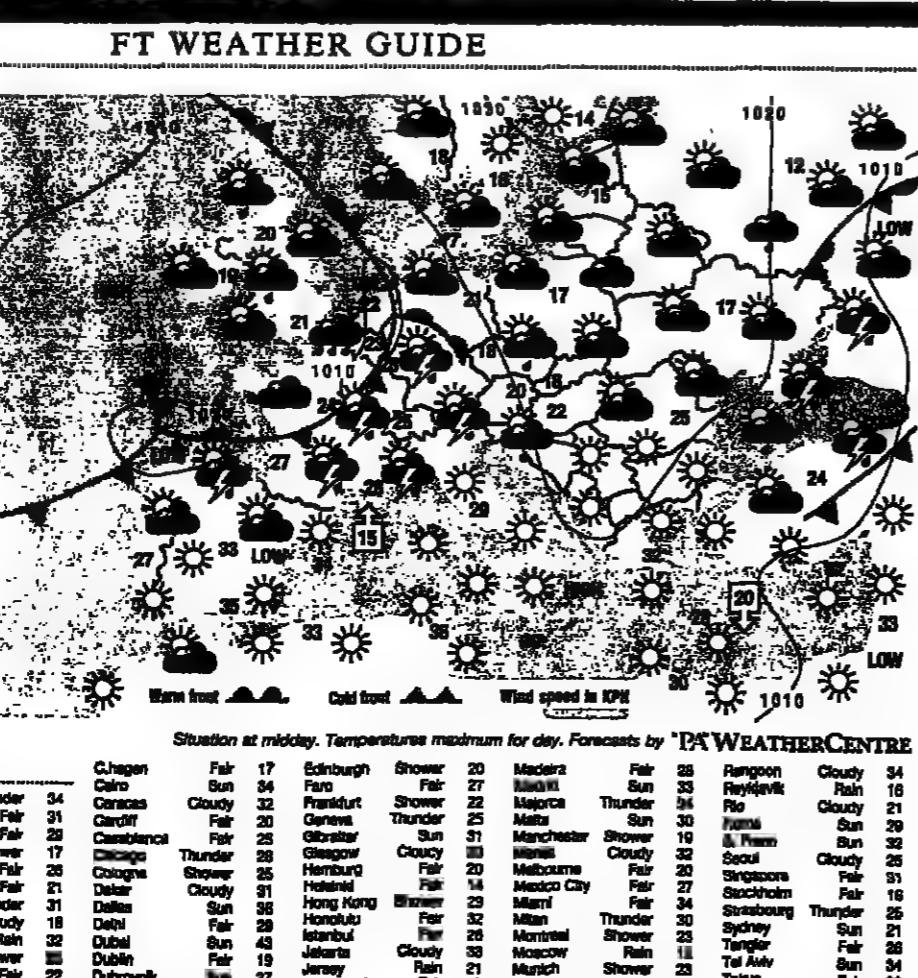
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Working youths in Indonesia's Aceh province overturn a truck before setting fire to it. Many Chinese-owned stores were also attacked.

FT WEATHER GUIDE



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COMPANIES & FINANCE: THE AMERICAS

SATELLITE TELEVISION NEWS CORP CHIEF SURRENDERS CHAIR AFTER STRUGGLE TO BREAK INTO CHINESE MARKET

Murdoch steps down at Star TV

By Christopher Parkes
In Los Angeles

Rupert Murdoch has stepped back from the front line in the battle to open Chinese media markets, and appointed Gareth Chang as chairman of Star TV, News Corporation's Asian satellite television service.

By surrendering his chairmanship of the loss-making venture, Mr Murdoch has relieved himself of one of his most testing jobs after years

of struggling to convince the Chinese authorities to allow News Corp more access to their market.

The appointment of Chinese-born Mr Chang, former head of international operations at Hughes Electronics' DirecTV satellite broadcasting subsidiary, marks a strategic shift at a time when Star is believed to be close to breaking even.

His appointment to the board of News Corp and the inner circle of the group's

executive committee demonstrates the importance Mr Murdoch attaches to his hitherto uneven efforts to break into Asian, and especially Chinese, markets.

The relationship between Mr Murdoch and Beijing has been uneasy since the News Corp chairman's speech in 1993 which suggested the spread of satellite TV services could undermine totalitarian regimes.

Since then, Mr Murdoch has been at pains to stress his goodwill, visiting China frequently and investing in a joint internet venture with the People's Daily.

He has been criticised for his conciliatory moves such as removing BBC news from the Star TV service and approving a \$1m book publishing deal for the daughter of Deng Xiaoping.

Star, based in Hong Kong, has absorbed about \$2bn in acquisition costs and losses since News Corp bought the service in 1993. Its signals

cover much of India, China and parts of the Middle East, transmitting music videos, films, sport and English programmes.

Mr Chang, a former McDonnell-Douglas executive, is credited with brokering many commercial links in Asia, including the setting up of DirecTV Japan with six local companies.

He is also on the board of Apple Computer and the advisory board of the Nike sportswear group.

Car groups start to squeeze component makers

Sell-offs replace period of expansion, writes Haig Simonian

After years of growing painstakingly through acquisitions, first at home and then abroad, US conglomerates such as ITT Industries elevated them-selves into the first rank of the world's car parts makers.

But a string of disposals suggests some are now dismantling their carefully assembled operations.

In recent weeks, ITT Industries and Cooper Industries, which also makes electrical equipment and hardware, have raised \$4.5bn by dismembering their automotive empires.

ITT raised \$1.7bn selling its vehicle electrical division to Valeo of France. A further \$1.9bn came through the sale of its braking activities to Continental, the German tyres group. Houston-based Cooper raised \$1.8bn selling two automotive subsidiaries to Federal-Mogul, the fast expanding parts specialist.

More disposals may be on the way. AlliedSignal's surprise \$9.5bn hostile all cash bid for AMP, the world's largest supplier of electric and electronic connectors, has sparked talk it might have to divest some businesses to raise money. AlliedSignal is a leading producer of turbochargers, brake parts and filters.

Uncertainty over surrounds Tenneco, a once sprawling conglomerate now focused on packaging and car parts.

Tenneco Automotive, its parts division, was widely tipped to buy ITT's brakes businesses until an eleventh-hour withdrawal. Instead,

Tenneco's parent company said it was examining spinning off its two subsidiaries' divisions.

The ITT and Cooper disposals would have raised few eyebrows had they been small or marginal operations. But the businesses were leading names in areas where consolidation had, apparently, reached its peak.

ITT's brakes business, best known for its German-based Teves brand, ranks alongside Robert Bosch and LucasVarity in the world's top manufacturers. Among the brands sold by Cooper were household names such as Champion sparking plugs, a market leader.

Three broad reasons explain the readiness to sell: Conglomerates such as ITT and Cooper are becoming concerned about profit margins in the motor industry. Components companies commonly report earnings equivalent to about 6 per cent of sales. That is about twice that of vehicle makers, their main customers. The discrepancy has prompted many vehicle manufacturers to target suppliers for price cuts. Fearless cost cutters, such as Jack Nasser, head of Ford's worldwide automotive business, have axed expenses internally and demanded similar sacrifices from suppliers.

Vehicle makers have been demanding greater financial commitments from suppliers. Car and truck manufacturers have tried to save money by devolving product development work onto their

component companies. Instead of being handed detailed technical drawings and told to submit bids, suppliers are now involved more closely in vehicle development.

The appeal for them is in winning exclusive, long-term contracts. With vehicles being produced globally, that could mean massive volumes. But a successful supplier would also be expected to invest heavily in research and development and, if necessary, in new capacity to supply its customer's plants just-in-time around the world.

Sale prices for big components are looking full in historical terms. In

May, Dana, a leading body parts specialist, paid about 10 times earnings before tax, depreciation and amortisation for Echlin, a braking and aftermarket parts group. That was comfortably above the margin of eight to nine times earnings common in the industry.

The vendors have looked at their other businesses and decided they can get better returns on their capital," says Greg Melich, motor industry analyst at Morgan Stanley in London.

John Riley, Cooper chairman, justified its decision, saying: "Given the growth potential we see in our electrical products and tools and hardware segments, we believe that our shareholders would be better served by our focusing on and growing these core businesses."

But while some companies have taken their parts operations to bits, the amounts they have raised shows there is no lack of buyers for such one-off opportunities.

Valeo's purchase will increase its sales by about a third to FFr45bn (\$7.8bn), based on its 1997 figures. The deal will enable the French group, previously the world's 14th biggest parts maker, to expand its business with US and German carmakers - ITT's main customers - and reinforce its position in parts, such as wiper systems and electric motors.

Continental's \$1.9bn bid

for ITT's braking division, meanwhile, showed tyre manufacturers could pump up their low-margin businesses by moving into ancillary products. The step

formed part of the tyremaker's long-term strategy to supply entire automotive "corners", including tyres, brakes and ride components, as part of the broader trend in the motor industry towards providing modular assemblies.

After the acquisition, Continental's sales will be divided equally between tyres and other components: before, tyres accounted for about 70 per cent.

Federal-Mogul's move appeared equally astute. The group, which has been growing frenetically through acquisitions under Dick Snell, its chairman, will expand its United presence in braking and lighting and develop its lucrative aftermarket side. Sales should climb from more than \$5bn to \$7bn - closer to Snell's \$10bn goal by 2002.

It's a win-win situation. The vendors are pleased to get out, and the buyers think they can do better out of the businesses by leveraging their costs over much bigger volumes," says Mr Melich.

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Eaton issues warning following sales fall

By Nikki Tait in Chicago

Eaton Corporation, the large Cleveland-based manufacturing group, warned yesterday that the troubles faced by its semiconductor equipment business were proving more extensive than previously feared.

The division, it said, would now post a 40 per cent fall in sales in 1998, and an operating loss of around \$80m.

Three months ago, the group warned about the problems, and said it expected sales from the business to tumble from around \$450m last time to around \$380m in the current 12 months. It said earnings would swing from a \$30m profit to a loss of between \$40m and \$45m.

But yesterday's revised estimates, which envisage sales of only \$275m, acknowledged that the difficulties have continued to mount, with no end in sight. Stephen Hardis, chief executive, said that the industry activity "shows no sign of bottoming" and that "no one can say with confidence when conditions will begin to turn".

He said Eaton was studying ways to pull the business to a break-even position on the new projected sales levels, with the review likely to be complete within a month. The company has already cut 600 jobs in the division since the end of 1997.

Any additional charges "required to implement structural adjustments" would be included in the review, he said.

The company had already cautioned that the semiconductor equipment problems might prevent it from seeing an earnings improvement in 1998.

Ahead of yesterday's news, analysts were forecasting earnings per share of just over \$2 in 1998, compared with \$2.23 in 1997, according to First Call.

In July, Eaton revealed disappointing second-quarter profits, down from \$126m a year ago to \$114m. The drop was blamed on difficulties at its semiconductor equipment business, and the knock-on effect of strikes at General Motors and the Pacar car truck company. Sales slipped from \$1.9bn to \$1.7bn.

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NEWS DIGEST

CONSUMER PRODUCTS

Procter & Gamble plans restructure to boost sales

Procter & Gamble, the US consumer products giant, plans its second big corporate reorganisation this decade, with job cuts likely, in an effort to boost profits and double its sales within 10 years. The group told shareholders in a letter accompanying the annual report at the weekend that business units would be based on products, instead of regions, marketing would be improved and corporate staff streamlined. However, it declined to say how many jobs would be affected.

Details of the plan will be announced in coming weeks. Sales have grown steadily in recent years, but not at a rate to achieve the goal of John Pepper, chairman, of doubling them by 2005. For the year ended June 30, the company had sales of \$37.2bn, up only 4 per cent from the year before. When Mr Pepper took over in mid-1995, annual sales were \$33.4bn.

The company's last big reorganisation was announced in July 1993 when Edwin L Artzt was chairman. It closed 30 plants and cut 13,000 jobs worldwide. DJ-AP, Cincinnati

FINANCIAL SERVICES

KPMG revenues up 27% in US

KPMG Peat Marwick, the US firm of the global professional services giant KPMG, yesterday announced that revenues in the year ended June 1998 were up 27 per cent to \$3.8bn. The firm said it was aiming for a 30 per cent increase in revenues to \$6bn by 2000. Consulting revenues rose 50 per cent to \$1.5bn in the year.

These figures will be closely watched in the US where KPMG has announced it is considering a flotation of 30 per cent of its management consulting business. An initial public offering would be the first among the so-called Big Five. However, the firm is still at an early stage in considering an offering, and regulators may intervene. If the firm does seek an offering it will have to reveal details of profitability - otherwise obscured in the annual disclosure of revenues. Jim Kelly

ELECTRONICS

Hitachi to close Texas plant

Hitachi, the Japanese electronics group, is mothballing its Texas memory chip plant and laying off 650 workers in the latest response to the slowdown in the world semiconductor market.

The company is also merging its two California-based chip development units - Hitachi Semiconductor and Hitachi Micro Systems - into a single unit which will focus on developing Hitachi's microcontroller business. The new unit will also handle the sale of memory chips for Hitachi, which continues to manufacture memory chips in other plants around the world. The US operations are part of Hitachi America, a subsidiary of the Japanese group.

Kozi Nomura, who appointed chairman of Hitachi Semiconductors America, said: "The global semiconductor business continues to be dramatically affected by overcapacity in memory chips." However, he added that there were still significant opportunities for microcontroller chips.

These chips are used to drive sophisticated control and monitoring capabilities to a wide range of other devices, from home appliances to industrial machinery.

The group said the Texas plant would be made idle immediately but would be kept in a useable state while its future was considered. The financial effects of the move will be immaterial to Hitachi which has consolidated worldwide sales of \$8,400bn (\$68.5bn). Roger Taylor, San Francisco

Comments and press releases about international companies coverage can be sent by e-mail to International.companies@FT.com

Woodard pays for 'surprises'

Loss of BA order probably not the trigger for sacking of Boeing executive

By Michael Simkin
Associate Correspondent

The sacking of Ron Woodard, head of Boeing's commercial aircraft division, signals the exit of one of the aerospace industry's greatest characters.

The departure of the plain-speaking, imposing 55-year-old, announced yesterday, might not be permanent. He is still talking to Boeing about taking another, unspecified post.

And if he does leave Boeing, where he has worked for 32 years, he might turn up elsewhere. He is widely recognised as one of the world's best aircraft salesmen.

The decision by the Boeing board to remove Mr Woodard came after a dreadful week for the company.

It had failed to win a large order from British Airways, one of its most loyal customers, which decided to buy up to 18 narrow-bodied aircraft from Airbus Industrie.

Those who suggested he should have foreseen the problems as "second-guess yappers".

Mr Woodard's dismissal had been rumoured fre-

NEWS DIGEST

CONSUMER PRODUCTS

Procter & Gamble plans structure to boost sales

Procter & Gamble, the US consumer products giant, has announced a major corporate restructuring that will affect 12,000 jobs over the next 12 years. The plan, first disclosed in September, will affect 10,000 jobs in the Americas, 1,000 in Europe, 500 in Asia and 500 in the rest of the world. It is intended to reduce costs by \$1.5 billion over the period.

Details of the plan will be announced next month, following the departure of John Ferguson, chairman of P&G, in October. Total sales were \$37.2 billion in 1997, up 4 per cent. The company's last big reorganization was in 1993 when it sold its 40 per cent stake in Unilever and cut 10,000 jobs around the world. (AP, Chicago)

FINANCIAL SERVICES

IPMG revenues up 27% in US

Private label manufacturer, the US arm of the UK-based services giant, IPMG, yesterday announced a 27 per cent rise in revenues for the year ended June 1998, to \$1.5 billion. The firm had a year ago increased its revenues by 21 per cent to \$1.2 billion. Total revenues rose 50 per cent to \$2.1 billion.

These figures will be beaten when IPMG has announced its annual results, due on 10 September, showing revised figures for the first half of the year.

IPMG's chairman, John Kelly, said: "The year will be remembered as one of significant achievement and expansion, particularly in the US market."

Electronics

Hitachi to close Texas plant

Hitachi has announced that it will close its plant in Dallas, Texas, in the next few months. The plant, which has been in operation since 1970, produces electronic components for the automotive industry. The company has decided to move its operations to a new facility in Mexico, where it will be able to take advantage of lower labor costs and improved infrastructure.

Jun Okawara looks like an unlikely force for change in Japan's industry. He is softly spoken and has an easy, boyish manner. He fixes coffee for visitors himself, an unusual courtesy in Japan's corporate culture.

But as the founder and president of Skymark Airlines, Japan's first new airline for 35 years, Mr Okawara is a revolutionary. In the battle to establish the country's first low-cost, no-frills airline, he has challenged stubborn bureaucrats and executives from the industry's biggest carriers, and defied the odds of the financial crisis gripping Japan.

Skymark's debut marks the end of a two-year struggle against the traditional way of doing business in the tightly regulated airline industry, where the Ministry of Transportation (MOT) sets fares and routes.

Mr Okawara set a new industry standard by refusing to agree to minimum fares for Skymark flights in his application to the MOT.

When flights begin next week, Skymark's fares will be 50 per cent less than those charged by the established carriers - Japan Airlines, Japan Air Systems and All Nippon Airways - on the route between Tokyo and Fukuoka. It will be the first time a domestic airline has dared to undercharge its rivals significantly.

Not much about Skymark, or Mr Okawara, is conformist.

In Japan's corporate world, where most people

or 'surprises'

or 'surprises'</

COMPANIES & FINANCE: EUROPE

TELECOMMUNICATIONS DUTCH GROUP STICKS WITH FORECAST OF 2-4 PER CENT PROFITS INCREASE FOR YEAR

KPN edges ahead to Fl 1.01bn at midway

By Gordon Cramb in Amsterdam
KPN, the privatised Dutch telecoms group, achieved a record increase in first-half business volumes - but at sharply reduced prices as it was forced to respond to new competitors and a tougher regulatory regime.

As a result, net profits edged just 3.5 per cent higher to Fl 11.01bn (\$507m).

Hans van den Bosch, chief financial officer, last night gave analysts a picture of

how the group was fighting back. Income was being boosted in part by a voice mail service, initially offered free to domestic customers, which meant that "45 per cent more calls were being completed than before".

Revenues rose 9.3 per cent to Fl 8.23bn, as a surge in volumes was offset by the lower prices. Growth in demand also reflected an increase in mobile phone users, where KPN operates the Netherlands' largest net-

work. In addition, according to Mr van den Bosch, as much as 11 per cent of call traffic being initiated was by modem to the internet.

KPN controls World Access/Planet Internet, one of the country's leading service providers. But an attempt to widen this market through a cut-down version called Het Net is regarded by industry observers as a failure.

Mr van den Bosch defended the group's inter-

national strategy in the face of a dip into a Fl 11m pre-tax loss in the contribution from its affiliates, compared with Fl 26m profits last time.

Profitable involvements in countries such as Ireland and the Czech Republic were offset by weakness in Indonesia and a further negative result at Unisource, the European telecoms alliance, which cost Fl 102m.

However, Unisource - with which AT&T of the US

plans over two years to cut

its ties - formed only part of KPN's plans for foreign markets, Mr van den Bosch said. He added: "I think alliances will remain in certain markets or services but not on the scale as before."

KPN said a ruling due within days from Opta, the industry watchdog, "could have an effect on future results". Opta is due to pronounce on tariffs proposed by KPN for providing connections to rival services, after the company was pro-

hibited from passing on costs of the local loop where calls originate or end.

But Mr van den Bosch said he did not expect substantial price decreases in the second half. KPN left unchanged a full-year forecast of a slight increase - of 3.4 per cent - in net profits from the Fl 1.94bn achieved by the then PTT Telecom in 1997.

That comes before a pre-tax charge of Fl 500m-Fl 800m, to be taken late this year, to cover job cuts.

VW dismisses speculation over trucks takeover

By Helga Simonian in Hanover

Volkswagen, Europe's biggest carmaker, yesterday confirmed its ambition to expand into the heavy truck business, but pulled back from earlier statements that it intended to do so by buying a leading manufacturer.

VW said its priority now was to shorten the lengthy order backlog which had built up for many new models, such as the Golf. The company also appears to have decided to wait until the next big downturn in commercial vehicle demand, rather than pursue an acquisition at current inflated prices.

The speculation about VW's takeover plans, fuelled by Ferdinand Piëch, chairman, has caused turmoil in the truck industry. MAN of Germany and Sweden's Scania have regularly dismissed speculation they are among VW's prime targets.

Bernd Wiedemann, head of VW's commercial vehicles division, said: "We are not under any time pressure." Although buying an existing manufacturer would accelerate VW's plans, the company would invest more than DM80m in Germany to develop new products and facilities over the next five years. "There are plenty

of willing brides, but the dowry is considerable," he said.

Mr Wiedemann said sales of its current European-built light commercial vehicles had climbed 7 per cent to 160,000 units in the first eight months of this year. Turnover reached DM7.6bn (\$4.3bn) last year, 18 per cent higher than 1996.

Mr Wiedemann said the world market for commercial vehicles, including sports utility products, would grow by about 20 per cent in the next three years. He forecast the fastest increase in central and eastern Europe, where sales should soar by 70 per cent to more than 700,000 units.

• Adam Opel, the German subsidiary of General Motors, expects sales of about 150,000 commercial vehicles a year in western Europe by 2005. Gary Cowger, new Opel chairman, said the growth would come mainly from the company's co-operation with Renault of France to produce a new generation of medium and heavy vans.

Mr Cowger said the company would invest more than DM80m in Germany to develop new products and facilities over the next five years.



Albrecht Schmidt, chief executive of the new HypoVereinsbank, gives the 'thumbs up' sign in front of the new bank's offices in Munich. HypoVereinsbank, created by the merger of Bayerische Vereinsbank and Bayerische Hypotheken- und Wechsel-Bank, was officially formed yesterday. It will be the second biggest bank in Germany, with pro-forma consolidated assets of DM822bn (\$429m). Reuters

Canal Plus wins soccer rights

By David Owen in Paris

Canal Plus, the French media group, last night announced that four top Italian soccer teams had operating exclusive broadcasting rights to Telepit, its 90 per cent-owned Italian subsidiary, for six seasons for an undisclosed sum.

The quartet - Juventus, AC Milan, Internazionale and Naples - include three of the teams expected to participate in a future European super league if the venture gets off the ground.

Canal Plus said the agreement is to take effect in September 1999 and extend through to June 2005.

It said the rights were for Telepit's premium channels and its pay-per-view soccer service, PitCalcio, which is part of its D Plus digital package.

It said the deal would provide Telepit and D Plus subscribers with live coverage of matches involving the four teams.

Michel Thoulouze, Telepit chairman, said the four accounted for 65 per cent of

the Italian pay-per-view market.

Canal Plus has also obtained rights to the worldwide broadcast rights of Juventus, AC Milan and Internazionale for the same period, to be marketed by its new subsidiary, Sport Plus.

Mr Thoulouze said the Italian football league had agreed that pay TV and pay-per-view rights should be negotiated on a club by club basis, although rights to highlights and the Italian cup would remain with the league.

Mr Thoulouze did not answer directly when asked whether the deal covered the eventuality of the clubs playing in an eventual super league.

However, he said that if forced to choose between a super league and the Italian league for pay-per-view rights, he would choose the latter. "There is no super league for the moment," he said.

Italy has become the centre of a political battle over the rights to broadcasting soccer matches on pay-TV.

BBL shrugs off jump in provisions with 15% rise

By Neil Buckley in Brussels

Jumped 20 per cent from BFr18.4bn to BFr21.1bn. But depreciation, write-downs and provisions more than doubled from BFr6.3bn to BFr10.5bn.

The difference resulted in part from accounting changes, but also included BFr300m added to provisions for BBL's Asian exposure - on top of BFr600m set aside in 1997 - as well as write-downs on holdings in Asian subsidiaries, including a BFr55.1m write-down on the investment portfolio.

The provisions increased the loan-loss ratio from 0.29

per cent last December to 0.38 per cent, although this remained within the bank's target of 0.4 per cent.

Net interest income increased 6 per cent to BFr28.9bn, while non-interest income increased 15.8 per cent to BFr23m, because of strong growth in commissions.

The limited cost increase improved the cost-income ratio from 81 per cent to 75.7 per cent.

Michel Tilmant, chief executive, said BBL was "interested" in Credit Lyonnais, Belgium, a unit of the French bank, that is for sale.

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MANAGEMENT & TECHNOLOGY



Bride sweet talk: Kelly Marks, who began the courses two years ago, was surprised when students began drawing comparisons with the workplace

Big Picture



JOHN KAY

Would I rather be Henry VIII?

It's a stupid question — almost as silly as the way we measure inflation and economic growth

If you are reading this, Linda, I hope you still remember the evening we spent together in Oxford in the summer of 1972. We dined at the Elizabeth restaurant. We enjoyed the piperade, the supreme de volaille, and the crème brûlée, and much else.

I had exactly the same meal there a few weeks ago.

I have changed and so, I expect, have you. But the Elizabeth has not. The décor is just as it was, the service is still classically impeccable and the piperade, the supreme de volaille, and the crème brûlée are still on the menu.

The coffee is brewed by the same

vacuum process that brewed it in 1972.

But the price is very

different. I don't have the bill for our dinner, but an old *Good Food Guide* tells me that I could have bought that meal in 1988 for 31

shillings (or £1.55 (\$2.55) as it became on decimalisation).

This year, it costs me £23.

In 1972, neither Linda nor I

had eaten a hamburger.

McDonald's arrived in the

UK in 1974 and a Big Mac

cost 45p. Today you will

pay £1.84, an annual

inflation rate of 6 per cent.

These comparisons are

frauds. The curious time

warp that envelopes the

Elizabeth, and the relentless

standardisation of

McDonald's, enable us to

look at these price changes

with confidence that we are

comparing like with like.

Most of the modern economy

is not like that.

Susan thought the course

was great for management

training. "This course

is for remedial people, not

bad horses," she said.

Kelly Marks, who started

the courses two years ago

for "horse types", was sur-

prised when they attracted

a wide range of people

who began drawing compari-

sons with the workplace.

One such student was

Nick Jacobs, who is working

on a pilot course for the

corporate sector, to be launched

this year. Mr Jacobs, manag-

ing director of Rowan Asset

Management, said he had

been attracted to the ideas of

Monty Roberts after watch-

ing a television programme.

He described joining up as

"being all about sending

clear messages, interpreting

the feedback and then clos-

ing the deal. It's that sim-

ple". It was also great fun

and did not involve getting

near nostrils.

Intelligent Horsemanship,

Kelly Marks, 01483 71300.

Tickets to Monty Roberts's

UK demonstrations in Sep-

tember, 01638 911200.

As it happens, the cost of a meal at the Elizabeth, rising at 11 per cent a year, almost exactly matches the movement in the catering component of the UK's Retail Prices Index. But I could reduce catering inflation to 6 per cent by looking at the price of a Big Mac or increase it to 16 per cent by measuring the change in the cost of a very good evening out. You could present a good argument for adopting any of these figures.

And if we are so uncertain about what has really happened to prices, we are therefore uncertain about what has really happened to output and economic growth. How do we compare a bundle of output that consists of sea crossings, side rules and Ealing Comedies with one made up of package holidays, computers and televisions? Only by making a decision as to how many Ealing Comedies equal one television.

I don't know how to do that and nor does the Office for National Statistics.

It is tempting to argue that we could solve these problems if we were more careful in the way we compile economic statistics. There is not much doubt that if we paid more attention to quality improvements and the consequences of the introduction of new goods the reported rate of inflation would be lower — probably much lower — and the reported rate of growth would be higher — probably much higher.

But the issue goes deeper. Am I better or worse off than Henry VIII? True, I have fewer wives, servants and palaces, but Henry suffered agonies from piles and could not get to Bristol in less than a week.

Asking whether I would rather be me or Henry VIII is as stupid as asking whether I would be happier if I were a sheep or a fly, and the question is not made less stupid by dressing it up in figures.

When someone tells you that inflation is 3.7 per cent and growth 2.1 per cent, be very wary of believing that these numbers tell you what has happened either to the cost or the standard of living.

The author is the Peter Moore Director of the Said Business School at Oxford University and a director of London Economics. This column appears fortnightly.

Henry suffered agonies from piles and could not get to Bristol in less than a week

not all go one way. When I bought Linda dinner in 1972, I was not really purchasing a supreme de volaille. I was buying her the best dinner Oxford could offer. To do that today, I would have to take her to the Manoir aux Quat'Saisons, and pay the £72 that M. Blanc demands for a meal. That is equivalent to inflation of 18 per cent per cent per annum. But what you get is a very different product. I am willing to bet that faced with the choice of a six week journey by sea for £122 or a 24-hour flight at £271, most people would choose Qantas.

The improvement in quality more than offsets the increase in cost. When we recognise this, we see the price of getting to Australia has not gone up. It has come down.

A brilliant essay by the American economist Bill Nordhaus provides a good illustration of the issues. The price indices we see reported measure changes in the price of light bulbs and of electricity. But we don't

INFORMATION TECHNOLOGY BRIEFS

Pioneer seizes lead in big race for thin screen

In the competition to deliver the biggest, thinnest, highest definition television screen, plasma technology has the edge and Japanese electronics groups are leading the way.

Pioneer, which already has a range of VGA plasma screens up to 40in, is to launch a 50in model — the PDP-501MX — which it claims will be the world's largest and highest definition plasma screen.

The screen is the first of its size to feature an XGA panel with 1,280 horizontal by 768 vertical pixels. Pioneer claims it is 2.5 times sharper than any other VGA plasma screen on the market.

It is only 9.8cm deep with a 160° viewing angle which, its manufacturer says, is ideal for boardrooms and presentation suites.

www.pioneer.co.jp

Alcatel offers alarm service

When something goes wrong or help is required, wireless telecommunications

fax-on-demand and a feature that allows callers to retrieve product information or price lists.

This month Ricoh launches a plain paper machine — Fax 4800L — which has features including fax-on-demand, an 80Mb hard disk for data storage and data handling capabilities for increased productivity and reduced costs.

The machine, which can be hooked up to a digital ISDN line to increase delivery speeds, also has the option of a second fax line to allow simultaneous sending and receiving. It costs £2,495.

www.ricoh-europe.com

Alcatel offers alarm service

When something goes wrong or help is required, wireless telecommunications

often provide the quickest way to alert people.

Alcatel, the French telecommunication group, has launched the 4400 Notification Server, a security management device linked to a voice communication system, which can automatically transmit alarms and messages to Alcatel's 4070 digital cordless (DECT) phones.

The system is already in use in Stedelijk Ziekenhuis, the city hospital in Roesselaere, Belgium, where it is configured to call the mobile handsets of medical staff when patients request service from their beds, or when monitors detect changes.

The notification server, which is expected to have many applications including enterprise security management and equipment maintenance, can be configured to ring one or

more DECT handsets in the case of an alarm. Users are notified of the nature, urgency and origin of the alarm.

www.alcatel.com

System on a chip in sight

Chip designers continue to integrate more and more functionality into their creations, leading to the point at which entire systems can be mounted on a single semiconductor device: the "system on a chip". At the same time, shortening product lifecycles mean these increasingly complex LSI (large scale integrated) circuits must be designed ever more quickly.

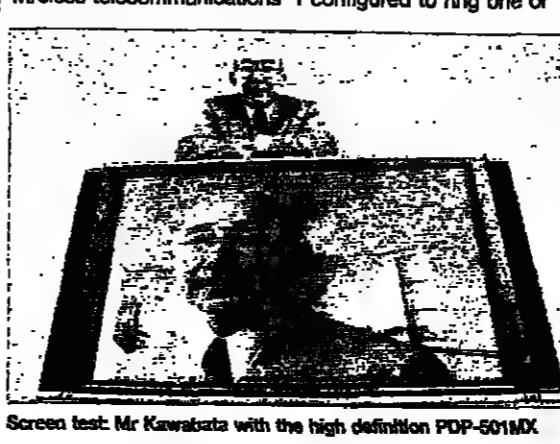
Designing a LSI chip is a three-stage process beginning with "behavioural" design, then logic design and finally layout design. In order to speed the process, software has been used to automate layout design and logic synthesis.

NEC, the Japanese electronics group, claims to have developed software that can automate the first step — behavioural design.

NEC researchers claim their behavioural synthesis system enables users to design chips automatically from the "C" language descriptions designed to operate the circuit.

www.nec.com

Paul Taylor



Screen test: Mr. Kawakita with the high definition PDP-501MX

INFORMATION AND DOCUMENT MANAGEMENT SYSTEM

EXPRESSION OF INTEREST(EOI)

The World Intellectual Property Organization (WIPO) is an intergovernmental organization with headquarters in Geneva, Switzerland. It is one of the 16 Specialised Agencies of the United Nations System of Organizations. WIPO is responsible for the promotion of the protection of intellectual property throughout the world, including the administration of the Patent Cooperation Treaty (PCT) System. The PCT regulates the filing and processing of international applications for the protection of inventions where such protection is sought in several countries. Since the beginning of its operation in 1978, the office of the PCT has received, processed and published more than 350,000 international patent applications, of which over 54,000 were filed in 1997.

During the 4th quarter of 1998, WIPO will issue a Request For Proposal (RFP) for a major Automation Support System for the office of the PCT to pre-qualified Systems Integrators. This new system will enable the migration from a paper-based environment to an electronic environment for the filing, processing and publishing of international applications under the PCT. The objective is to implement the system within a 3-year period, while maintaining daily operations.

Due to the broad scope of the project, the volumes involved and the technical complexity of the environment, WIPO intends to select a Systems Integrator who has demonstrable capability to assume overall responsibility for implementing this important system. For the first step of the selection process WIPO has prepared an EOI (Expression of Interest) package that provides a brief description of the project, the pre-qualification criteria for potential partners, and response requirements. Responses to the EOI will allow WIPO to pre-qualify potential Systems Integrators.

The EOI package is available from the WIPO Web site at the following address:

<http://www.wipo.int/eng/pct/projects/roi/index.htm>

Expressions of interest concerning the PCT Automation Support System project should be received by WIPO not later than September 30th, 1998.

INTERNATIONAL CAPITAL MARKETS

Prices fall as investors take profits

GOVERNMENT BONDS

By Jeremy Grant in London and John Lutate in New York

European prices ended sharply lower yesterday after an early firm start was punctured by signs of a mild - if temporary - recovery on stock markets and as traders reported some profit-taking.

Bond prices, as well as those of bond futures contracts, have been at their highest levels for years as the emerging market turmoil of recent weeks has threatened to turn jittery bulls into confirmed bears.

Analysts suggest that prices may have peaked, pointing out that bond yields cannot fall much further without prompting a cut in key interest rates in the US.

There were signs yesterday that some longer-term investors were switching out of bonds and buying cheap stocks.

"I think that bonds are looking pricey. People may be looking to take profits on bonds in order to minimise losses in equities," said Julian Jessop, chief European economist at Nikko.

However, most analysts agreed that the fundamentals were still in place for bonds.

"This is just a relief rally in stocks and not a sign that we're on dry land again," said Kit Juckes, head of bond and currency strategy at NatWest.

US TREASURIES were sold heavily in early trading as investors returned cautiously to US equities and on news of a rise in the National Association of Purchasing Management index for August.

By early afternoon the 30-year bond, the benchmark for long-term interest rates, was down 1/4 to 102.24, pushing the yield up to 5.338 per cent.

US 30-year Treasury bonds

Yield (%)

Gilt/bond spread

UK rates German 10-year bond spread (percentage points)

Among shorter-term issues, the 10-year note was down 1/4 to 104.4, yielding 5.056 per cent, and the two-year note was 1/4 lower at 100.2, yielding 4.875 per cent.

"The dollar is selling off and the rising stock market is unwinding the safe-haven [in Treasuries]," said Richard Gilhooley, at Paribas Capital Markets New York.

Although international events and the level of stock trading were the main factors, new data were also released on the US economy.

The NAPM index of manufacturing activity rose to 48.4 in August, from 48.1 in July. Meanwhile, the Conference Board's index of leading indicators rose 0.4 per cent in July to 105.4.

DERIVATIVES INVESTORS RUSH TO IMPROVE EXPOSURES

Volumes soar on leading exchanges

By NIKKI TAIT in Chicago and Edward Lutate in London

Trading volumes on the world's leading derivatives exchanges have soared in the past few days as investors have rushed to improve their exposure to the highest quality underlying government bond markets.

The London International Financial Futures and Options Exchange said it had recorded its third busiest day last Friday, with an overall turnover of 1.67m contracts (the highest was on October 9 last year).

Two contracts - the euro-lira interest rate future and the short sterling option - posted record daily turnovers on Liffe last Thursday.

With trading volumes of 219,689 and 167,483 contracts respectively.

Analysts said investors were hoping to compensate for some of their losses in emerging markets by improving their exposure to safe-haven instruments, such as the 10-year German government bond through the futures market.

Turnover in the bond future exceeded 500,000 yesterday - well in excess of its normal daily average but below the high of 800,000 recorded last week. "Futures contracts thrive on volatility," said an official at Liffe.

In Chicago, all three big derivatives exchanges have seen a huge surge in volumes over the past three

trading days, with traders staggered as much by the net price movements.

On the Chicago Board Options Exchange, the largest options market worldwide, volumes jumped to 1.3m contracts on Monday and 1.1m last Friday. That compares with average daily trading levels in the market for end-July of around 805,000 contracts a day.

However, volumes at the exchange had already been building, averaging around 920,000 contracts a day in August. By yesterday, some investors were said to be getting out of positions during the past few days, rather than entering new contracts.

Even more marked was the jump in the exchange's "market volatility index", which measures fluctuations in the front month options on a group of leading stocks.

This swept to a record close of 48.33 on Monday, up from 40.95. A year ago, the index was pegged in the high teens, and although it surged to a record intraday high of 57 last October, for much of this year it has been in the 30s.

On Monday night, the degree of price volatility was partly blamed for a brief hiccup in the exchange's quote reporting system. The problem occurred just before the market closed and rectified within 10 minutes. The exchange said trading itself was never halted and

the jump in the exchange's "market volatility index", which measures fluctuations in the front month options on a group of leading stocks.

WORLD BOND PRICES

BENCHMARK GOVERNMENT BONDS

By NIKKI TAIT in Chicago and Edward Lutate in London

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BOND FUTURES AND OPTIONS

France

IN NOTIONAL FRENCH BOND FUTURES (LFFP) FV\$500,000

	Open	Set price	Change	High	Low	Ext. val.	Open Int.
Sep 1	105.90	-0.06	-	106.00	105.80	-	10
Open	105.90	-0.06	-	106.00	105.80	-	10
Set price	105.90	-0.06	-	106.00	105.80	-	10
Change	-0.06	-	-	0.04	-0.02	-	10
High	106.00	-	-	106.00	-	-	10
Low	105.80	-	-	105.80	-	-	10
Ext. val.	-	-	-	-	-	-	10
Open Int.	10	-	-	-	-	-	10

IN LONG TERM FRENCH BOND OPTIONS (LFTF) FV\$100,000

	CALLS	PUTS		
	Open	Set price	Change	High
Sep 1	105.90	-0.06	-	106.00
Open	105.90	-0.06	-	106.00
Set price	105.90	-0.06	-	106.00
Change	-0.06	-	-	0.04
High	106.00	-	-	106.00
Low	105.80	-	-	105.80
Ext. val.	-	-	-	-
Open Int.	10	-	-	-

IN NOTIONAL GERMAN BOND FUTURES (LFFP) FV\$250,000 100cts of 10/95

	Open	Set price	Change	High	Low	Ext. val.	Open Int.
Sep 1	112.70	112.80	-0.10	112.80	112.70	-	41
Open	112.70	112.80	-0.10	112.80	112.70	-	41
Set price	112.70	112.80	-0.10	112.80	112.70	-	41
Change	-0.10	-	-	0.00	-0.10	-	41
High	112.80	-	-	112.80	-	-	41
Low	112.70	-	-	112.70	-	-	41
Ext. val.	-	-	-	-	-	-	41
Open Int.	41	-	-	-	-	-	41

IN NOTIONAL GERMAN BOND FUTURES (LFFP) FV\$250,000 100cts of 10/95

	Open	Set price	Change	High	Low	Ext. val.	Open Int.
Sep 1	112.70	112.80	-0.10	112.80	112.70	-	41
Open	112.70	112.80	-0.10	112.80	112.70	-	41
Set price	112.70	112.80	-0.10	112.80	112.70	-	41
Change	-0.10	-	-	0.00	-0.10	-	41
High	112.80	-	-	112.80	-	-	41
Low	112.70	-	-	112.70	-	-	41
Ext. val.	-	-	-	-	-	-	41
Open Int.	41	-	-	-	-	-	41

IN NOTIONAL ITALIAN GOVT. BOND (LFP) FUTURES (LFFP) FV\$100,000 100cts of 10/95

	Open	Set price	Change	High	Low	Ext. val.	Open Int.
Sep 1	105.90	105.80	-0.06	105.80	105.70	-	10
Open	105.90	105.80	-0.06	105.80	105.70	-	10
Set price	105.90	105.80	-0.06	105.80	105.70	-	10
Change	-0.06	-	-	0.00	-0.06	-	10
High	105.80	-	-	105.80	-	-	10
Low	105.70	-	-	105.70	-	-	10
Ext. val.	-	-	-	-	-	-	10
Open Int.	10	-	-	-	-	-	10

IN NOTIONAL ITALIAN GOVT. BOND (LFP) FUTURES (LFFP) FV\$100,000 100cts of 10/95

	Open	Set price	Change	High	Low	Ext. val.	Open Int.

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Task force appointed to tackle technical hitches

MARKETS REPORT

By Richard Adams and Robert Chote

The US dollar tracked the swings and roundabouts of Wall Street yesterday, falling to a two-month low and then rising as the bears and bulls battled it out.

The dollar ended the trading day in Europe against the D-Mark at DM1.745, some 1.5 pfennig weaker than its previous closing rate in London. Against the Japanese yen it was Y1364, just over Y35 lower.

But the European closing prices failed to tell the full story of the dollar's seesaw ride. The dollar rallied stumped to a nine-month low against the D-Mark and its weakest level against the yen for two and a half months. The Australian and Canadian dollars enjoyed a rare respite from their weakness, strengthening against the US dollar as the idea abounded that the Federal

Reserve would be prepared to cut interest rates.

The movement in Fed funds futures suggest that many in the market have begun to price in a cut. The greenback was not helped by the less robust than expected NAPM survey result.

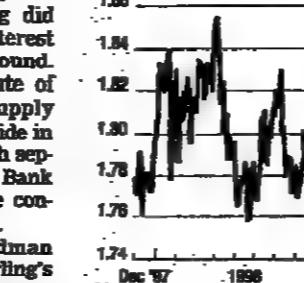
However, after Europe's close, the dollar rose again as the Dow Jones index strengthened. Against the yen the dollar reached above Y137 before hitting resistance, on talk of Japanese

interest rates.

Michael Saunders, at Salo-

Dollar

Against the D-Mark (DM per \$)



Source: Bloomberg

mon Smith Barney, noted that futures markets priced in almost half a point off base rates by the end of the year. But he argued that equity markets were not yet weak enough to justify easier policy, making it likely that rates would not fall until next year.

If this view takes hold it might give sterling support for a while.

Outside of Wall Street, the most significant development of the day was the decision by Malaysia to impose sweeping capital controls.

As a result, Malaysia's cur-

rency - the ringgit - is no longer legal tender outside of the country. All trading in the ringgit will take place onshore. Holders of the ringgit offshore must repatriate them by the end of this month (about RM100m, or \$25m). All settlement of exports and imports must be made in foreign currency, and non-residents who sell shares cannot repatriate earnings for a year.

The ringgit ended the day

stronger, with analysts concerned that a fixed exchange rate could also be introduced. Other east Asian countries may be tempted to follow Malaysia's lead.

Is China about to devalue? Not according to Joe Zhang, head of China research at HSBC in Hong Kong.

"The renminbi is massively undervalued," Mr Zhang said, adding a brief yesterday. "I expect it to appreciate by 10 per cent to 15 per cent in the next two years."

The appreciation would begin in the fourth quarter of 1990, when exporters began to repatriate a greater portion of their foreign exchange earnings and convert them to yuan.

"Deflation means the renminbi is strengthening domestically in terms of its purchasing power," Mr Zhang said.

"Deflation and the renminbi appreciation are mutually reinforcing."

WORLD INTEREST RATES

MONEY RATES

Sep 1	Over night	One month	Three months	Six months	One year	Long term	Oct. rate	Rep.
Belgium	55	57/4	52	55	55	6.00	2.75	
France	53	57/4	57	57	57	4.60	3.30	
Germany	52	57/4	52	52	52	4.2	-	6.75
Ireland	53	57/4	52	52	52	6.50	5.00	4.99
Italy	51	57/4	52	52	52	4.1	-	
Netherlands	51	57/4	52	52	52	3.5	2.75	3.30
Switzerland	12/5	12/5	12/5	12/5	12/5	1.00	-	
UK	52	57/4	52	52	52	5.00	5.00	5.00
Japan	5	57/4	52	52	52	5.00	5.00	5.00

London interbank base rate (LIBOR) is the 120-day rate. USD/CHF is the Swiss United Deposits rate.

Local rates are shown for the domestic money base. USD/CHF is the Swiss United Deposits rate.

EURO CURRENCY INTEREST RATES

Sep 1	Short term	7 days notice	One month	Three months	Six months	One year
Belgium	3%	3%	3%	3%	3%	3%
France	3%	3%	3%	3%	3%	3%
Germany	3%	3%	3%	3%	3%	3%
Italy	3%	3%	3%	3%	3%	3%
Netherlands	3%	3%	3%	3%	3%	3%
Switzerland	1%	1%	1%	1%	1%	1%
UK	3%	3%	3%	3%	3%	3%
Japan	1%	1%	1%	1%	1%	1%

Short term rates are for the 120-day and 180-day rates. Two-day rates.

Local term rates are for the 120-day and 180-day rates. Two-day rates.

USD/CHF is the Swiss United Deposits rate.

Local rates are shown for the domestic money base. USD/CHF is the Swiss United Deposits rate.

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COMMODITIES & AGRICULTURE

RUSSIAN MELTDOWN ALUMINUM, COPPER AND NICKEL STOCKS ALREADY LOW

Analysts see sharp falls in metal supplies

By Kenneth Gooding,
Mining Correspondent

Supplies of aluminum, copper and nickel could be cut back significantly at a time when global stocks are relatively low because of Russia's financial meltdown, analysts suggest.

They dismiss the idea that the collapse of the rouble will encourage big increases in exports of these metals. They say Russia has little stock and is already selling to western markets nearly as much as it produces.

There could also be long-term, debilitating

effects on the mining and metals processing industry. Tony Warwick-Ching at Flemings Global Mining Group suggested Russian mines and plants, cut off from foreign investment for refurbishment, might gradually collapse and then output fall, as happened in the Congo, Zambia and other countries deprived of foreign investment for long periods.

Many big investment projects in Russia are increasingly dependent on foreign expertise as well as finance. "With foreign direct investment shut off or reduced, the operations -

some of which had begun to improve recently - will decay further, output potential will gradually decline and exports slide," said Mr Warwick-Ching.

On the disruption to metal production or deliveries, Ammanie Gardner and Kenneth Gray, analysts at ABN Amro, said: "Uncertainty among western partners about the safety of transactions or the continuity of deliveries could in extreme conditions lead to a serious credit crunch and production problems.

"Given the very low level of metal and steadily falling

inventories in the west, any unexpected supply disruptions will lead directly to shortages of metals."

In a special report, the ABN Amro analysts said the Russian Federation accounts for 23 per cent of global nickel production, 18 per cent of aluminum and 4 per cent of copper output.

They suggested that Norilsk, which produces most of Russia's nickel and copper, could only increase output after substantial capital expenditure.

"Norilsk's competitors, Uraelectromed and Uralnickel, are not major produc-

ers or exporters and could well go bankrupt in the present environment," they said.

Even if Russia's domestic aluminum demand halved, the impact on global markets would not be dramatic.

"We believe the economic crisis will probably cap the rate at which aluminum smelters can produce. The smelters rely on imported raw materials which may face cross-border transaction problems because of the instability. Also, the smelters will have more difficulty raising cash for increased working capital requirements," they said.

Mr

Warwick-Ching

suggested

there

might

be

increased

exports

of

scrap,

which

could

be

a

problem

for

copper

and

nickel.

The ABN Amro analysts argued, however, that low metal prices have reduced the attractiveness of scrap collection, and the cost of collection in Russia has risen substantially because most scrap arriving in European markets is brought from Congo".

William Wilson, president of Banro American Resources, said: "Banro's story has become widely known among foreign investors in the Congo and has had an immediate chilling impact, particularly in the critical mining sector." Banro says the government unilaterally dissolved its Congolese subsidiary and terminated a 25-year mining con-

tract.

The government said this was because of "irregularities" when Banro's 93 per cent owned subsidiary, Sakima, was set up to take over mining concessions held since the early 1990s by a predecessor company, Sominki.

Discussions with President Laurent Kabila's office appeared to indicate an acknowledgement that a mistake may have been made by the government in this case. Mr Wilson suggested: "We will take any and all steps to protect our lawful interests and have asked our lawyers to explore other legal remedies, including additional lawsuits in US federal court." Kenneth Gooding

NEWS DIGEST

GOLD

Congo faces claim over expropriation of mines

The government of the war-torn Democratic Republic of Congo - formerly Zaire - is facing a claim for more than US\$1bn from Banro Resources, a small Toronto-listed exploration company. Lawyers acting for Banro's US subsidiary have filed a claim at the International Center for the Settlement of International Disputes in Washington seeking restitution for "the sudden and unlawful expropriation of the company's gold mining concessions in eastern Congo".

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PEANUTS

Fears grow of global shortfall

There are growing fears of a global peanut shortfall this year and next, as recent floods in China and earlier torrential rainfall in Argentina - two of the world's biggest producers - have badly affected the harvesting, quality and total size of the current crop.

This follows a forecast by the US Department of Agriculture that US peanut production, which has been affected by drought, will fall 2 per cent this year to 1.58m tonnes. The state of Georgia, the country's largest producer, is predicted to harvest only 582,330 tonnes this year, against 605,021 tonnes in 1997, while Florida's harvest is predicted to drop by 15 per cent. Because of the drought in the biggest peanut-growing states, prices of US peanuts rose by about 20 per cent in July; they have recently stabilized at about 40 cents a pound.

In Argentina, where harvesting normally takes place in April and May, the heavy rainfall delayed lifting of the crop by two months and has substantially reduced the expected crop size. Traders say the total available export crop could be reduced by as much as 36 per cent, to 330,000 tonnes, against 530,000 tonnes expected at the beginning of April.

China's flooding has also damaged oilseed crops and is therefore likely to mean increased demand for peanuts to crush for oil, putting even greater pressure on prices. Prices of peanuts on the international markets have recently breached \$1,000 a tonne, against \$930 a tonne a month ago. Gary Mead

India to set up soyabean exchange

By Kunal Basu in Calcutta

India is to set up a domestic futures exchange for soyabean, the country's third largest oilseed crop after groundnut and rapeseed/mustard.

The Soyabean Processors Association has been given the go-ahead by the federal government to start trading futures in soyabean and soyabean products, though trade officials say it will take at least six months to draw up the contracts and regulations and build the infrastructure, including a clearing house.

The contracts and trading rules will also require approval from the Forward Markets Commission.

The futures trading will cover soyabean and soyabean oil and cakes produced in India, but will exclude imports.

However, the government plans to extend the futures trading to all important oilseeds so that farmers can secure better prices and oil



Rising prices have encouraged farmers to grow oilseeds over much larger areas

Storm report supports oil

MARKETS REPORT

By Robert Corrigan, Kenneth Gooding and Gary Mead

The gloom that has enveloped the oil markets of late was partially lifted yesterday by a storm in the Gulf of Mexico that threatened offshore output.

The evacuation of a number of production platforms underpinned prices, with Brent Blend for October delivery quoted at \$21.57 a barrel in late trading on London's International Petroleum Exchange, one cent up on Friday's close.

The threat of production disruptions in the US helped offset earlier comments from Amer Mubarak Rasheed, Iraq's oil minister, who said Baghdad intended to raise its export volumes during the next two weeks, and VMA said the crop was "in excellent shape and there are no reports of pests and diseases". Good rains from the monsoon and the cultivation of additional land for soyabeans mean there is likely to be a record crop of nearly 7m tonnes, against 6.5m tonnes last season.

This season's soyabeans will start during the next two weeks, and VMA said the crop was "in excellent shape and there are no reports of pests and diseases". Good rains from the monsoon and the cultivation of additional land for soyabeans mean there is likely to be a record crop of nearly 7m tonnes, against 6.5m tonnes last season.

Gold in London claved its way back from a 19-year low on Friday of \$273.40 a troy ounce to an afternoon "fix", of \$279, up \$6.60, or 2 per

cent. Dealers said this was the result of some short covering and some Japanese buying as the yen rallied.

On the London Metal Exchange traders said aluminum was also lifted by similar factors.

Robin Shar at Brandeis

(Brokers) said three-month aluminum's \$30 a tonne, or 1.6 per cent, rise to \$30.383

was based on Japanese buying

encouraged by the stronger yen. The premium for copper for immediate delivery, compared with metal for delivery in three months, which reached more than \$30 a tonne on Friday, eased yesterday and by the close was \$4. Three-month copper closed at \$1,544 a tonne, up \$25, or 1.6 per cent, from Friday's close.

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MEAT AND LIVESTOCK

MEAT CATTLE CME (10 tonnes/tonne)

continued

Sept Day's

Open

Price change

High

Low

Vol

Sep 226.50

+1.00

240.50

240.50

11,511

5,028

Sep 226.50

+1.00

240.50

FINANCIAL TIMES WEDNESDAY SEPTEMBER 2 1998

FT MANAGED FUNDS SERVICE

Offshore Funds

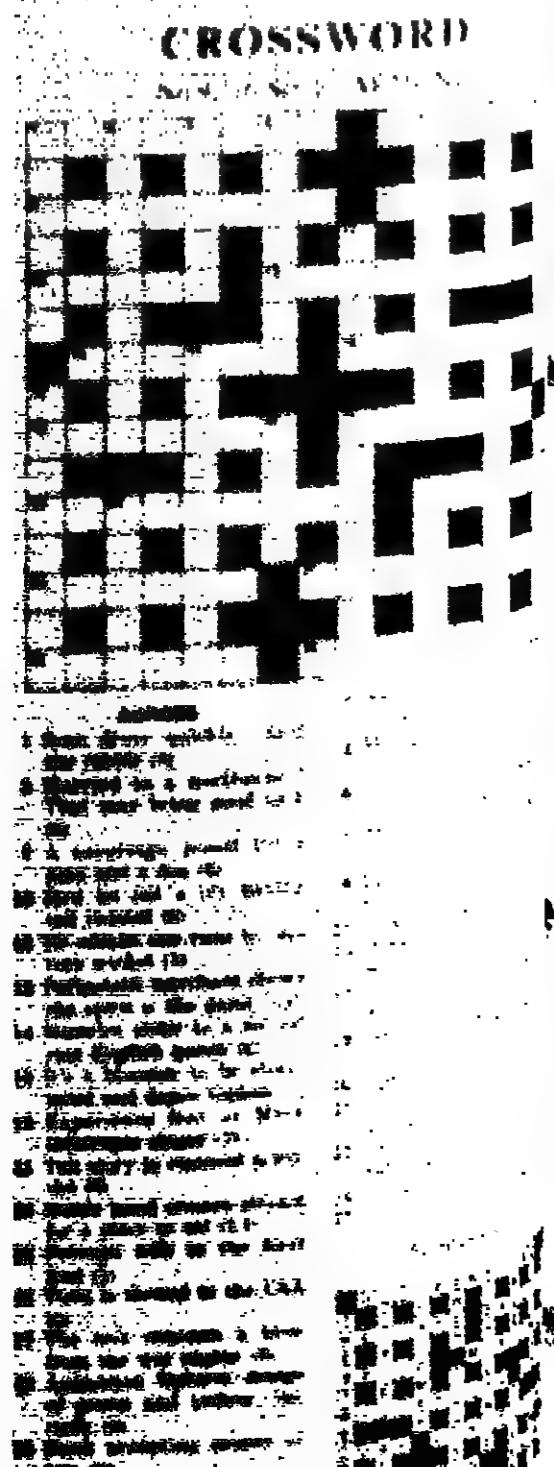
OFFSHORE AND OVERSEAS

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FT MANAGED FUNDS SERVICE

Offshore Funds and Insurances

● FT Cityline Unit Trust Prices are available over the telephone. Call the FT Cityline Help Desk on (+44 171) 873 4378 for more detail.

LONDON SHARE SERVICE

LONDON STOCK EXCHANGE

Equities take a beating but fight back from lows

MARKET REPORT

By Steve Thompson,
UK Stock Market Editor

There were no prizes for guessing that the FTSE 100, along with all the other UK market indices, would finish sharply lower yesterday.

But there were few observers in the London market who would admit to picking a closing Footsie loss of 80 points after the Dow Jones Industrial Average had closed 500 points down on Monday evening.

Most, by their own admission, would have plumped

for a three-figure fall, and most, too, would have put the loss in excess of 200 points.

In the event, the FTSE 100 closed a net 80.3 or 1.6 per cent lower at 5,169.1, a performance greeted by many as impressive in view of Wall Street's overnight retreat, so it stabilised as the US market embarked on a strong recovery, albeit after a sequence of hefty swings in both directions soon after the start of trading in the US.

On the downside, there was much less optimism among the market's second-tier and small-cap stocks, which had to absorb another severe hammering.

The FTSE 250 index relin-

quished 158.0 or 3.3 per cent to 4,827.3 and the FTSE SmallCap index slid 76.7 or 3.7 per cent to 2,947.4.

Just as London plummeted at the outset because of Wall Street's overnight retreat, so it stabilised as the US market embarked on a strong recovery, albeit after a sequence of hefty swings in both directions soon after the start of trading in the US.

At the outset, the Dow pushed up more than 100 points before retreating the same amount and then pushing up again to record a gain of more than 200 points an

hour after London finished trading for the day.

It was the continuing turmoil in Russia, both on the political and economic fronts, that was behind the wild swings in global stock market sentiment, with worries that the perils that have struck most of the far eastern and eastern European markets might now move on to envelop Latin America.

Turnover on London's equity market was a disappointing 800.9m shares, an indication, according to marketmakers, that the big domestic and international institutions had not

embarked on a sell-off of UK stocks.

Although still extremely nervous of the potential for big setbacks triggered by events in Russia, marketmakers said they felt the UK might now be approaching the bottom in the current cycle.

One said: "The institutions are pumped full of cash and are picking off the quality stocks on days like this; confidence has been dented but not massively and London still offers better value than Wall Street."

Another pointed out that London felt relatively sound

at the finish of the day and said there was a feeling that much of the bad news was now in the price. "Footsie 5,000 looks increasingly like the bottom in the short term," he said.

Some strategists maintained, however, that there was more pain to come.

"The downside risks for London equities remain greater than those on the upside," said Richard Jeffrey, group economist at Charterhouse Tilney.

He insisted that the poor earnings growth outlook for UK stocks had not been fully factored into the market.

Russian losses hit Barclays

COMPANIES REPORT

By Joel Kibazo and Martin Brice

The full impact of the Russian economic crisis hit home yesterday when Barclays tumbled after it surprised the market with news of the scale of its exposure to the troubled economy.

Barclays announced pre-tax charges and losses of £325m to cover its Russian exposure and resulting falls in other markets, well above the expected £100m level.

That exposure was mostly held within Barclays Capital, the majority being in the form of Russian government securities and financial institutions' counterparty credit.

"This is not good news for a group that was busy trying to convince the market that its quality and risk control had improved," said one specialist on the sector. Another analyst said: "With this news, the risk premium for Barclays has just gone up."

The shares yesterday gave up 78 to £13.37 following trading of 7.8m.

Rumours suggesting a merger between Shell and US group Texaco continued in an otherwise soggy market, helping drive shares in the Anglo-Dutch oil giant sharply ahead.

On Monday Texaco dis-

missed talk it would merge its operations with Royal Dutch/Shell Group. "There are two distinct issues. The fate of our European downstream operations, the review of which is not complete and this, which is wild speculation," a spokesman said.

With both companies having said they have held talks on their European refining and marketing operations, after Texaco launched a review of the division's performance late last year, rumours of a full merger persisted yesterday.

Shares in Shell jumped 10 to 327.9 in busy trade of

21m, one of the most actively traded stocks yesterday.

Takeover talk has been rife in the sector since BP's surprise takeover of Amoco last month. BP shares followed the market trend finishing 13 off at 740.5.

Selling ahead of tomorrow's interim results saw Enterprise Oil slip 25 to 332.9. Lehman Brothers is predicting the group will reveal net income of 240m, down 50 per cent on year. It has the stock on an "outperform" rating for its "strong asset base and positive exploration newswow".

The bloodbath was most severe among information

technology stocks, where investors endured falls in excess of 10 per cent. The general market decline combined with the drop in technology stocks on the Nasdaq market in the US sour sentiment in the IT sub-sector. However, volumes were small, suggesting that the pain was largely a markdown and the large institutions had not given in to the temptation to take profits.

IT stocks have been highly rated and retained much of their premium to the market even after yesterday's falls.

The general fall was strong enough for London Bridge Software to unveil interim results more than doubled yet see its shares fall more than 35 per cent, or 312.4, to 900.

The decline prompted one of the bears on the sector to amend its stance on some stocks. Roger Phillips, an analyst at Granville, said: "We have been bearish on the larger stocks in the first half of the year because valuations had become detached from trading fundamentals. It is quite important now to focus on quality

IT stocks because a scattergun approach to buying IT stocks at this point might be asking for trouble."

The somewhat illiquid and volatile shares in Maxis were among the worst performers in the Footsie, as they fall 346 to 223.04. Those suffering the biggest falls in the FTSE 250 could have formed a list of the leading lights of the IT index. They were led by Logica, off 20% to 215.56, and WI Group, down 21.7% at 141.62%.

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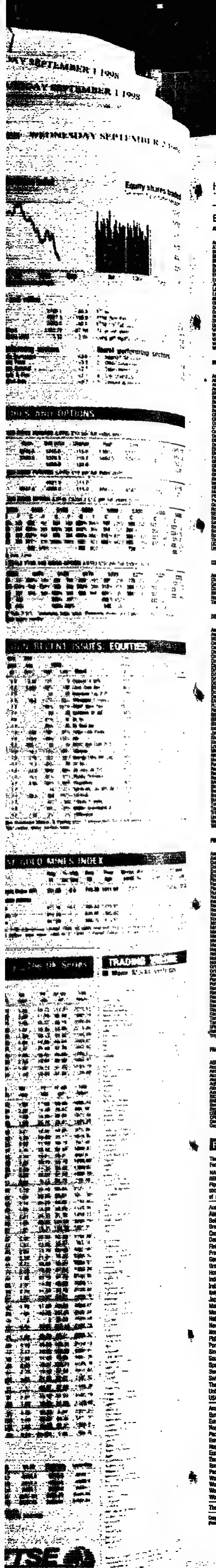
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GLOBAL EQUITY MARKETS

^a See Aug 20: Ticker: weighted Price \$70.62; Return: Comp. \$ 264.25. Standard & Poor's 500 Index. ^b As of August 20, 2010. ^c NYSE-GDX also known as: GDX. Cap. 1,400,000 +/−4.02. 1 Corrections. ^d Calculated at 15:00 GMT. ^e Excluding Index. ^f Interest, plus Utilities, Personal and Transportation. ^g The DJ Ind. Index theoretical day's high and low are the averages of the highest and lowest prices recorded during the day by each stock; whereas the actual day's high and low represent the highest and lowest values that the stock has reached during the day. ^h Source is available on previous day. ⁱ Source is available in official publications. ^j Total and P/E ratios are based on Standard & Poor's Total Market Index. ^k 2010.

THE NASDAQ STOCK MARKET

THE NASDAQ STOCK MARKET

AMEX PRICES

STOCK MARKETS

Bourses left reeling in Wall Street's wake

WORLD OVERVIEW

It was the morning after the night before for world markets yesterday, and share prices staggered around with a hangover for most of the day, writes Philip Coggan.

The impact of Monday's late 512-point decline in the Dow Jones Industrial Average on Wall Street, which wiped out all the gains US investors had made this year, reverberated throughout the day.

Asian markets wobbled in early trading but then recovered, notably in Tokyo, which was helped by a stronger yen. Malaysia, the latest

Asian country to move away from free financial markets, was the big exception: the announcement of capital controls sent shares down 13 per cent.

European bourses fell heavily at the start but then spent much of the day reacting to an extremely volatile Wall Street. Electronic trading of the S&P futures indicated a strong start and the Dow duly gained 100 points in the first few minutes of trading.

That rally quickly evaporated, turning into an 100-point loss before the Dow bounced again to be 100 points ahead by the time

European markets closed. Some European bourses have now fallen more than 20 per cent since mid-July, making the decline officially a bear market rather than a correction.

Overbought or can the last rises finally be read for the long bull market?

Edmund Warner, the global strategist at BT Alex Brown who has been bearish for some time, said the ratio between bond yields and the prospective earnings yield now made shares look fair value. "There is the caveat that earnings forecasts are being revised down, but this is still a dramatic shift from

a month ago, when equities looked as much as 25 per cent overvalued."

Mr Warner added that yesterday was "probably the first day throughout the correction when you should be looking to buy the market. It doesn't necessarily mean that the correction is over, but if you're an institutional investor, you're never going to get all your money in at the bottom."

He said Europe was suffering from outperformance earlier this year. "A lot of the equity gains could yet be unwound if people panic. While we like Europe in the long term, we think Wall

Street will outperform in the short term."

George Hodgson, European strategist at ABN Amro, thought that "over the past 72 hours, the stock markets have started to over-react. They have ignored the good news in the form of lower bond yields and commodity prices."

"What we may have seen," added Mr Hodgson, "is vigorous selling from aggressive investors, such as hedge funds. As the dust settles, we may see the big institutions come in and exploit valuations that look much more reasonable. For Europe we see economic growth of

2.75 per cent and inflation around 2 per cent, which is a good combination."

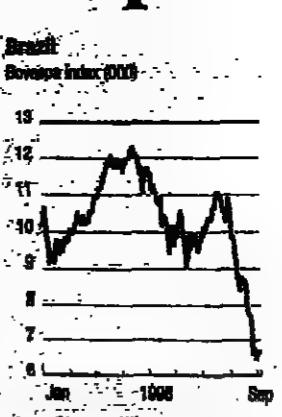
Ian Harwood, global economist at Dresdner Kleinwort Benson, is less upbeat. "Wall Street's fall is a justified realisation that earnings growth is not going to live up to expectations," he said.

"European fundamentals look fine. But there is a risk of infection from the US, especially if US investors decide to repatriate funds to meet losses. And if the dollar becomes weak, that would be bad news for European corporate earnings. We still think bonds and cash are the best investments to have."

EMERGING MARKET FOCUS

Little rest for dizzy Bovespa

Traders on the São Paulo stock exchange hoped for some respite this week, after days of dizzying swings, culminating last Thursday with a 10 per cent fall in the Bovespa index of



almost 10 per cent.

They were quickly disappointed on Monday when prices suffered a fall of more than 4 per cent, to produce a decline of almost 8 per cent in August. Yesterday the index opened firmer, up 63 to 6,536.

The Brazilian market has been among the hardest hit by the Russian crisis. In Latin America its volatility has been beaten only by Venezuela, which has its own problems.

There are two main reasons. One is Brazil's liquidity. As one of the biggest emerging bourses, São Paulo offers the easiest point of escape for investors stuck in other markets. The other is the perceived risk of a devaluation of other economic shock treatment.

Ministers insist there

will be no change to monetary policy, which consists of a gradual reduction of interest rates and a crawling devaluation of the real. They also signal that foreign investors had largely completed their sell-off on the Russian crisis. The Bovespa index closed 782.2 lower at 10,383.7.

ISTANBUL, down almost 11 per cent early in the day, rebounded strongly from its lows to close 4.2 easier in a recovery led by banks and other blue chips. The IMKB National 100 index finished 110.58 weaker at 2,524.55.

ATHENS also managed a recovery from its worst falls to close 7.5 per cent down but analysts cautioned there was likely to be further uncertainty and volatility in coming sessions. The general index, down 7.1 per cent early in the day, lost 82.9 or 8.8 per cent to 909.26.

MADRID pared its mid-

session losses to close with the general index off a modest 5.51 to 731.54. Telefónica, which turned in solid six-month results, ended Pta40 lower at Pta5,690. The banks had an especially volatile session. Santander ended off Pta50 at Pta2,750 after trading Pta2,550 over the day.

WARSAW fell 6.5 per cent

to its lowest level since February 1997 as domestic selling continued to depress the market. But a firming zloty signalled that foreign investors had largely completed their sell-off on the Russian crisis. The WIG index closed 782.2 lower at 10,383.7.

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The millennium 'bomb' is far from defused and time is running out for companies to deal with it, writes George Black

Year 2000 crisis looms

With only 486 days - or 69 weeks - left before the new millennium, it is increasingly clear that there is a real risk of disasters resulting from the so-called millennium computer 'bomb'.

Neither governmental nor commercial organisations around the world have taken seriously enough the threat of systems failure caused by the date change on computers.

Although the validity of the warnings is gradually being recognised, it may be too late to take effective action to ensure that critical systems are reliable.

A report by the G8 group of leading industrial nations stated that even its own members were late in preparing for the date change and that other nations around the world were lagging behind them.

Outside G8, governments have under-estimated the task and their assurances about being ready are probably not reliable, said the report. It referred to parts of eastern Europe, south Asia, particularly India and Pakis-

tan, and South America as the areas most at risk. It also expressed strong concern about the state of the nuclear industry, especially in eastern Europe.

The United Nations has asked all member-states to ensure that their infrastructures are year 2000-compatible by July 1998.

A study of 15,000 compa-

nies in 87 countries by researchers at the Gartner Group found a high level of unpreparedness. The group said 23 per cent of the world's companies - 80 per cent of these small ones - had not yet begun to amend their software.

Most industries were rated as high risk, or as being exposed to a critical business failure, with healthcare being the slowest to respond. Western Europe lagged six months behind the US, it said, with Germany a year behind and many countries in eastern Europe, the Middle East, Asia, Africa and South America even further behind.

The World IT and Services Alliance is holding a global year 2000 summit in London on October 15 and 16. The World Bank and the IMF are holding a seminar in Washington on October 5 to debate the challenges facing developing countries.

The UK's Public Accounts Committee warned that hospital patients could die because the National Health Service's year 2000 programme had fallen behind.

The NHS Federation, made up of health service experts, has advised the government to order the suspension of non-emergency operations in December 1999 because of possible systems problems, even though it would add greatly to waiting lists.

Banks in Britain are worried that customers may make huge withdrawals of cash before the end of 1999 because of a fear that cash dispensers will fail.

Many of the UK's largest companies are still failing to record in their annual reports what they are doing to tackle the problem, despite instructions from the Stock Exchange and the Accounting Standards Board.

A survey by Edinburgh-based Company Reporting found that a third of businesses which had reported since April had not given any details of their spending or manpower devoted to the task or stated who had management responsibility for the issue.

The UK water industry regulator Ofwat is checking on the progress of water supply companies in achieving year 2000 compliance after the government's Action 2000 committee said the industry was failing behind.

Fears of disruptions in the supply chain: see page 4

SOFTWARE ACTION

SAP in \$500m US lawsuit

SAP, the German business applications company, has been hit by a \$600m lawsuit from a US company which claims that SAP's R/3 software contributed to its collapse.

The case has been brought by FoxMeyer, a drugs distributor which went into bankruptcy in 1996. It is suing SAP claiming that the software was a "significant factor" in its demise.

In July, FoxMeyer launched another \$500m lawsuit against Andersen Consulting, which helped to install the software.

Both SAP and Andersen have rejected the charges.

SAP said the accusation "bore no relation to the facts". But the news of FoxMeyer's lawsuit against SAP caused a sharp drop in SAP's share price.

FoxMeyer was using an early version of R/3, which has since been adopted by a large numbers of companies worldwide and has turned SAP into the world's largest business applications vendor.

Andersen Consulting was one of the early enthusiasts for SAP's software, recommending it strongly to clients and doing much of the management consultancy and implementation work.

FoxMeyer alleged that SAP's "fraudulent and negligent conduct" induced it to invest millions in a system that failed to deliver.

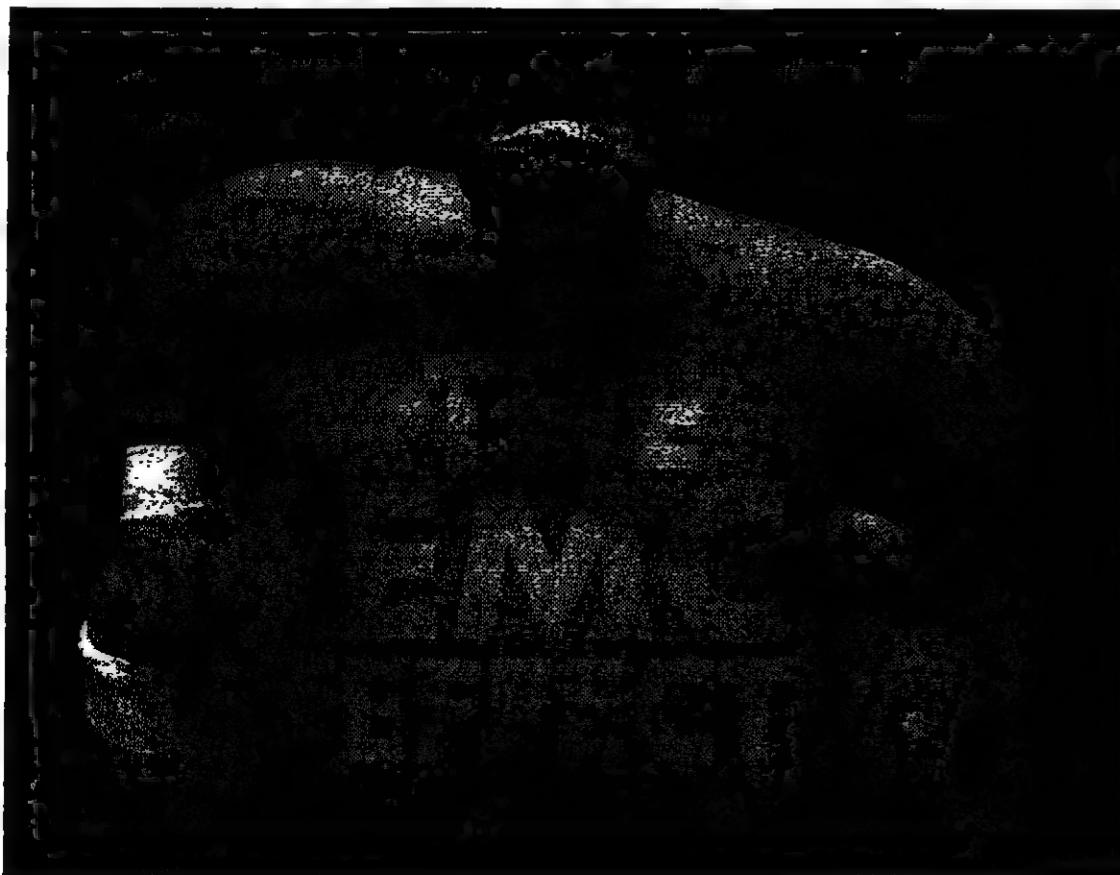
It was intended to run the company's sales, distribution, order processing and stock control systems. FoxMeyer claimed that SAP treated it like "its own research and development guinea pig", using the project to assess the "severity of R/3's volume problems."

FoxMeyer was subsequently acquired by its competitor, McKesson.

The case represents the biggest potential set-back that the German company has yet faced in its extraordinary rise to global leadership of the business applications sector.

Last year, SAP, a leader in a market that has seen astonishing growth, was the subject of an inquiry into insider share trading in Germany, which created some unfavourable publicity. However, the present case could affect SAP's reputation much more fundamentally. It recently listed its shares on the New York stock market.

Focus on the software market for enterprise resource planning systems: page 9



Taking control of huge amounts of data in order to back up information is, to say the least, an enormous task. It takes time. Costs money. And places critical business operations on hold. This is no

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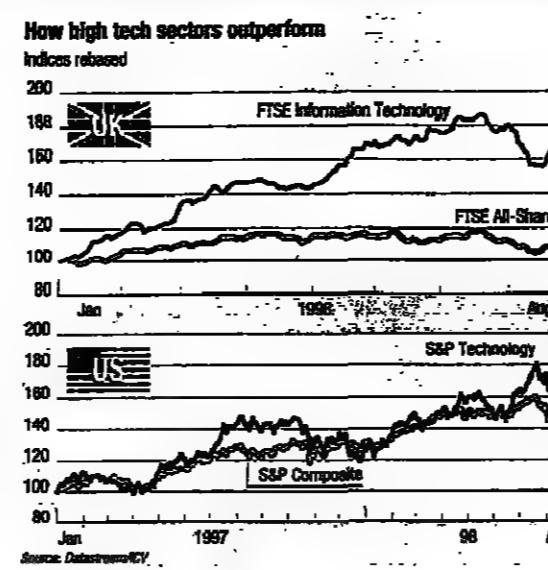
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How high tech sectors outperform
Indices released

FTSE Information Technology

FTSE All-Share

S&P Technology

S&P Composite

Source: Datastream

Jan 97 Aug 98

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July 150

MONTHLY NEWS SUMMARY An 'unbreakable' encryption system



The FT Review of Information Technology

This review is published on the first Wednesday of the month. In addition, FT-IT features appear in the 'Inside Track' section of the FT on each of the other Wednesdays of the month. The IT Appointments section is also published each Wednesday.

FT-IT Review, editorial controller: Michael Wiltshire.

Editorial inquiries: see details of the FT-IT.

What's in this issue, (volume four, number one):

Paul Taylor, IT correspondent: John Kammag, Geoffrey Nairn, Tom Forrest, Philip Mansbridge, Rod Newing, George Black, Geoffrey Whetstone, Mark Vernon, Michael Wiltshire, Michael Dempsey, Christopher Price, John Stollingford and Maura Moran.

Cover illustration: Michael Meiggs.

Graphics: Robert Hutchins and Mark Boland.

Picture research: Patricia Lee and Matthew Glynn.

The next issue: Wednesday, October 7. The main items will be 'The networked world'. Other reports will focus on call centres and image creation and manipulation.

More details on future issues appear on page 18.

For advertising details, contact:

In London:
Katherine Merton, tel +44 171 873 2748
Nadia Howarth, tel +44 171 873 4129
or fax +44 171 873 5082.
E-mail address: katherine.merton@FT.com
nadia.howarth@FT.com

In US:
Tim Hart, FT New York, tel +1 212 752 4500
or fax +1 212 819 0704.
E-mail address: tm.hart@FT.com

In Japan:
Tokyo: Patrick Brannon, tel +81 3 3285 4060
or fax +81 3 3285 1264.
E-mail address: patrick.brannon@FT.com

In Hong Kong:
Brighton McInden, tel +852 2888 2863
or fax +852 2887 1211.
E-mail address: brighton.mcinden@FT.com

Subscription service: full details appear on page 18 of this review.

Financial Times
Number One, Southwark Bridge,
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Cutting the IT bill in half is a remarkable achievement for any organisation. DuPont, the \$45bn US chemicals, energy and life sciences group, halved its spending on IT by a spectacular \$650m between 1989 and 1995. But for Bob Ridout, chief information officer (CIO) at DuPont, this was not enough.

"When we were spending \$1.2bn on IT we felt we weren't getting the value of that sum. So we started cutting costs and got down to \$650m. But then we found that what we had was a 'one size fits all' solution. By 1995, we didn't have the choices we wanted, but we were lean."

DuPont moved ahead, courtesy of a spectacular \$4bn outsourcing deal involving an alliance with CSC and Andersen Consulting. CSC took responsibility for DuPont's global IT infrastructure, including 60,000 desktop PCs. Andersen was given the task of managing and enhancing DuPont's work across the board, from the manufacturing plant to the customer-service relationship.

The structure that the CSC/Andersen team will manage was created by aligning DuPont's IT operations with the company's own global structure. Strategic Business Units, or SBUs, are the primary way DuPont operates.

"We have a mini-CIO in every SBU," says Mr Ridout. Fresh from a 7am global conference call with these executives, Mr Ridout says he has no qualms about devolving authority. "That's the main point of my job. I work through them a tremendous amount."

Mr Ridout has used the deployment of CSC and Andersen to offload some aspects of the IT issue while DuPont concentrates on matters closer to its corporate heart. Since 1987, the company has divested a printing unit, sold to Agfa, while acquiring a UK-based titanium dioxide business, known as "Tioxide" in DuPont's world, from ICI. This Tioxide business was, in turn, integrated into DuPont's White Pigments Business Unit, with a polyester business being simultaneously married into two other SBUs.

Within this complex re-organisation, there was no space for worrying about IT issues. Mr Ridout was not concerned about the apparent relegation of his business discipline. "It was the first time that I can remember when we had a situation like this and IT was not on the critical path. This was because CSC was handling all the questions of access to IT systems within the revised strategic business units."

The outsourcing of DuPont's IT management has changed Mr Ridout's role for the better. "In the

past, I would have had to make some difficult choices when confronting the re-organisation of these SBUs."

For him, such choices can obscure other pressing issues. "If I had been sucked into the details of IT in these SBUs I might have been forced to put year 2000 computer-compliance work on the backburner," he says.

For Mr Ridout, the looming question of the year 2000 computer date problem - the so-called "millennium bomb" or Y2K issue - is not something any chief information officer or IT director

should ignore. "This issue is a real attention-grabber for the CIO. I don't think there's any CIO who's not worried about the Year 2000."

Freed from unwelcome distractions by his outsourced support, Mr Ridout has other big questions on his mind: "We're thinking of creating a strategic services unit that would include IT in its remit."

This move has been prompted in part by DuPont's widespread adoption of manufacturing software from Germany's SAP. "We've been SAP users since the early 1980s and we now look upon

this technology as a tool for the global design and implementation of products and ideas."

CSC's newly-created Chemical, Oil and Gas Group will draw on 400 SAP specialists to support DuPont and future customers in this sector. Dupont of the US and BASF of Germany are the world's two largest chemical companies.

Charles Holliday, DuPont's chairman and chief executive officer, has said that Dupont aims to transform itself into a faster-growing and less cyclical group of businesses. The company is planning to float its oil business, Conoco, in the autumn and is seeking acquisitions in the life sciences area.

The whole concept of Dupont's strategic services unit is meant to deliver worldwide answers that can be implemented quickly. DuPont is also faced with upgrading its collaborative IT systems.

The independence of the SBUs has created an unwieldy legacy here, with five different e-mail systems in operation across the world. The e-mail option within DuPont is being converged and expanded around the Lotus Notes product.

Notes creates a constellation of user-groups, each able to communicate and share the contents of their computer screens. He emphasises that the decision to go with Notes is not a rejection of internal company Internet technology, known as intranets. "We are also setting up an intranet - but it will act as something of a repository of information, while Notes is used for one-to-one communication or to conduct meetings."

Notes will be embedded within the architecture and standards agreed by Mr Ridout's team of mini-CIOs and implemented by CSC and Andersen. After agreement was reached on replacing the five e-mail systems that had developed over 10 years, a majority of the mini-CIOs voted for Notes. "The important thing was that we picked one product to

operate around the world. Then we told CSC and Andersen what it was."

While these technologies are under review, Mr Ridout has to wrestle with the question of staff recruitment and retention. Under the outsourcing deal, 500 DuPont staff moved to Andersen and 2,600 came under the roof of CSC, leaving 1,100 IT personnel within DuPont.

The boom in demand for programmers as businesses try to grapple with the fall-out from the "millennium bomb" is inflating IT salaries and threatening to create a global shortage of the right skills. DuPont is ready to respond with an approach to personnel management which Mr Ridout calls "succession planning".

He says: "We need IT people who really understand our business and our market. We are looking at market-based compensation for IT staff, retaining them by treating them as part of the chemical industry. It's crucial to find what I call 'bridge people' - those who understand both the technology and its power to make a contribution... these people can actually suggest strategies for the business as a whole."

Mr Ridout enjoys a good relationship with his chief executive officer that many IT executives must envy, since Mr Holliday, DuPont's chairman and chief executive, is an enthusiast for technology. "He came to the job from a posting in Asia where he used IT personally to eliminate the challenges of time zones and distance. I have constant e-mail conversations with Chad Halliday and he's interested in the issues around IT industry suppliers."

This political empathy at the highest level within DuPont is a boon to Mr Ridout. During the battle to halve IT expenditure, he could rely on backing from his chairman. "He would go to IT meetings, too. Putting regional data centres together was easier for some people than others. Turf wars were the real big issue - he understood that situation."

Understanding the nature of each company's business has become a "critical requirement" for IT suppliers, but Mr Ridout concludes that the CIO with a future really *must* know "how to follow the dollars". He points out that DuPont's relentless growth requires management staff who can match each line of supply to that strategy.

"We've moved into biotechnology, for instance... so now we are looking for IT people who 'know' biotechnology and IT in the DuPont sense, so both these elements are exploited to accelerate business growth."

Dupont's IT chief knows 'how to follow the dollars'



Portrait by Walter Heyn

Ridout: cutting IT costs in half was not enough

Siemens to sell UK plant

Novell launches Netware 5

Siemens, one of the world's leading providers of industrial and consumer goods, has announced that it will sell its UK plant in Birstall, Leicestershire, to a consortium of investors.

The consortium, led by the UK-based investment firm, LDC, will take over the plant and its 250 employees.

Siemens has decided to sell the plant to focus on its core business of industrial automation and control systems.

The sale is expected to be completed by the end of the year.

Siemens has been a major player in the UK market for many years, and its products are used in a wide range of industries, including automotive, pharmaceuticals, and food processing.

The sale of the Birstall plant is part of a broader strategy by Siemens to divest non-core assets and focus on its core business.

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SUPPLY CHAIN MANAGEMENT • By Geoffrey Nairn

Route for accurate forecasting

Software tools help companies improve their product planning, cut lead times and speed up the management of orders

Supply chain management (SCM) has become one of the hottest segments of the software industry thanks to the competitive pressures driving businesses to streamline their supply chains and reduce lead times.

Compared to the enterprise resource planning (ERP) industry, the SCM market is fairly small with 1998 revenues of just over \$400m (£242m), according to the market research company, AMR. However, the market is growing fast – AMR predicts revenues of \$1.6bn for 2004 – as more businesses discover that the limited planning capabilities in their ERP systems, from vendors such as SAP or Baan, cannot cope with today's fast-moving business environment.

Companies are instead turning to the sophisticated analytic capabilities of SCM products from vendors such as 12 Technologies or Manugistics. They believe these tools can give them a competitive advantage by improving product planning, reducing lead times and speeding up order management.

The computer industry is a big fan of SCM as it has allowed manufacturers to cope with shorter product cycles and trends such as "build to order" while minimising the risk of having unsold PCs in warehouses.

Using 12's Rhythm product, Compaq's manufacturing and distribution division has reduced its overall inventories by more than \$400m in two years and its global planning cycle time from 28 to 14 days.

It has traditionally dominated SCM in the manufacturing sector while Manugistics has concentrated more on the consumer goods industry. Recently, however, Manugistics scored a coup by beating its rival to a big contract from Nokia, the

week, for example. According to Ms Fox, SCM comes into its own when a manufacturer has several product lines competing for limited production capacity. Some products may be just launched, others are in growth phase with demand growing strong, while still more products are nearing maturity or in decline.

Traditionally, the ERP and SCM vendors have seen their products as complementary and competition has been avoided. However, the ERP vendors are now trying to expand into SCM and this potentially threatens the impressive 50 to 100 per cent annual growth rates enjoyed by the SCM vendors.

"If the distribution chain gets overloaded with obsolete PCs, they send them back."

ERP and SCM are often confused as the two disciplines are distinct. ERP systems are designed primarily to run a business more efficiently by tracking transactions across functions such as finance, order management and manufacturing.

SCM systems, by contrast, analyse this information and allow managers to do forecasts and "what if" planning – analysing the effect if a factory were to close for a

software house. It has since expanded its SCM portfolio and now claims to be third largest SCM vendor.

Mr Webb predicts Baan's SCM sales will reach at least \$40m in the current year, compared with just \$18m in 1997.

SAP, Baan's traditional and bigger rival, has also joined the fray with an initiative called Supply Chain Optimisation, Planning and Execution (Scope).

SAP calls Scope "the most significant development initiative undertaken since the development of R/3," its flagship ERP software.

The products that result from SAP's Scope initiative are being developed around database technology from fellow German company Software AG.

Analysts do not see Scope challenging the products of established SCM vendors until 1999 at the earliest. "It takes time to develop a customer-base for SCM," says George Gilbert, an analyst with the securities firm, Deutsche Morgan Grenfell.

Rivals, not surprisingly,

are unimpressed with SAP's Scope initiative. "They are playing catchup with a small part of our Rhythm product that is already five years old," says Roger Taylor, European director of mid-market solutions at 12 Technologies.

"ERP vendors will bring out supply chain capabilities that will be very generic and not industry-specific," says Ms Fox of Manugistics.

If SAP does deliver on its promise then Scope could open the SCM market to smaller companies that cannot afford the million dollar price-tag of stand-alone SCM products such as 12's Rhythm.

"SAP could commoditise the low end," says Mr Gilbert. This is because ERP vendors could include a supply chain module within an overall ERP licence for little additional cost. This threat has led 12 Technologies to target smaller customers with a factory planning package that, while lacking the features of the Rhythm software, sells at a much cheaper price – around \$250,000. "It is the first serious attempt to offer a fixed-

price factory planning solution for mid-sized companies," claims Mr Taylor.

The growing competition in the SCM industry has not gone unnoticed on Wall Street which recently slashed the sky-high ratings enjoyed by the sector. The blame, claim analysts, lay with Manugistics and Logi-

tic, a smaller SCM vendor, which both being quarterly losses, while 12 presented an uncharacteristically cautious trading forecast, blaming slow sales on competition from ERP vendors.

"SAP has introduced another potential player in the market and that extends

the sales cycle for all of us," admits Mr Taylor of 12.

Mr Gilbert believes the re-rating was long overdue "valuations have dropped back after climbing through the roof" – and he believes the medium-term growth prospects for the SCM industry as a whole remain as strong as ever.

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THE BUSINESS WORLD: IMPACT OF THE YEAR 2000 PROBLEM • By Geoffrey Wheelwright

Procrastination will be very costly

As large companies race to solve their year 2000 problems, their suppliers could cause havoc in the supply chain

The global economy is a web of interconnected markets – when one catches a bad cold, they all sneeze. This point has been driven home forcefully in the wake of the financial crisis in many Asian countries when nations as far away as Canada, New Zealand and Australia suffer along with them.

The same is true of corporations. When demand for new housing slumps in Japan, for example, orders for the Canadian lumber to build many new homes also declines. And that, in turn, hits the Canadian economy.

And it could get far worse.

Computer experts are warning that the whole Asian crisis could be a "walk in the park" compared to the prospects facing many businesses in the face of the so-called "millennium bomb" computer problem (which means that older computer systems and software will mistake the Year 2000 for the year 1900).

As current problems in Asia

have demonstrated, businesses

have demonstrated businesses

IT 6 LOGISTICS AND THE SUPPLY CHAIN

ENTERPRISE RESOURCE PLANNING • By Tom Foremski

A way to open up new areas of business

ERP systems can centralise data within an organisation and help transform the business in response to changing market conditions

Enterprise Resource Planning (ERP) has become a key topic for IT departments within large and medium-sized organisations and its successful implementation can bring great rewards or nothing much at all.

The integration of all manufacturing and all related applications for the entire enterprise into a single monolithic IT system is the textbook definition of ERP, but its actual implementation becomes different for virtually each company. This is because ERP systems are not just a package of inter-related components, but a significant tool for taking a company into new businesses and speed the execution of new strategies.

This is only true, however, if ERP systems have been designed to complement the way a company works, or, as is the case more often, the company has agreed to change its way of thinking to accommodate the ERP system they have chosen.

The ERP category is very broad, but market analysts say that it is also one of the fastest and largest areas of software and services. AMR Research predicts that the ERP market, valued at \$14.5bn this year, will grow at a compound annual growth rate of 37 per cent

over the next five years, reaching \$52bn by 2002.

If you count related third party services, hardware, databases and networking, this year's \$14.5bn figure becomes an ERP infrastructure market that is worth more than \$42bn.

The clear market leader is SAP, followed by PeopleSoft, Oracle Applications, Baan, and JD Edwards. These five companies hold 64 per cent of the market in terms of revenue. With an ERP market boom of 64 per cent growth in 1997, some observers have suggested that it is due by year 2000 'fixes'.

Many companies have been installing ERP systems in order not to have to rewrite their existing applications. But with ERP systems taking at least 18 months to deploy plus additional testing time, if companies are buying ERP systems now as a "Y2K fix", they will not make the year 2000 deadline and will suffer from leading software failures.

Clearly, companies are realising that there are many other benefits of ERP that go beyond Y2K fixes. "Given the time it takes to select and implement these major systems, companies have already passed the Y2K deadline," notes Tony Frisella, president of AMR Research. "We believe that

While ERP systems can be shown to provide a generous payback, a recent survey

shows that not all companies installed ERP systems expecting them to save money on their IT costs. A survey of IT executives by *Information Week* Research showed that 11 per cent do not expect their ERP systems to pay back their investments, and one quarter say their ERP investments are more than \$10m. That's a lot of money to spend with the expectation of little or no payback.

But the reward comes in other forms: It centralises data within the organisation and makes it possible to transform that business more rapidly in response to market conditions. ERP systems have, in some cases, managed to transform smaller companies and exploit business opportunities that would have been difficult without their ERP systems.

A key issue, however, is the Internet, and how ERP systems can be Internet enabled. While US companies are ahead of European and Asian counterparts in making use of the Internet for electronic commerce and for distributing information within and without the organisation, most ERP systems are not easily Internet enabled.

Mark Hunter, chief executive of Axon Solutions, which installs SAP-based ERP systems, believes that the focus for ERP vendors has moved on from the older argument over competitive advantages. "The battlefield has now moved to outward



Asian factories have pioneered highly organised 'just-in-time' production systems: above, 1,000 workers stitch uppers for Nike shoes in Ho Chi Minh City, Vietnam. One floor below, 2,000 other workers are doing the same.

ADVANCED PLANNING • By George Black

Managers rush for scheduling software

'Just-in-time' technologies are now being used by manufacturers worldwide

was generally modified to make it more practicable by the addition of time and stock "buffers" which could avert the risk of disruption in the factory.

His company recently suggested three simple procedural changes to a client.

"They increased the benefits at almost no cost, without making a single change to the software," he says.

Within a few years, virtually every company of note will have an ERP system, which cancels out competitive advantages. But it is the way those ERP systems are used that will generate the next wave of competitive advantages.

Within a few years, virtually every company of note will have an ERP system, which cancels out competitive advantages. But it is the way those ERP systems are used that will generate the next wave of competitive advantages.

lies behind the rapid uptake of APS software.

"Enterprise resource planning (ERP) systems do not allow manufacturers to react quickly enough," argues John Watts, marketing manager for Scheduling Technology Group, a UK-based contestant in APS.

"ERP systems make assumptions about average lead times and delivery dates which do not enable them to provide the high level of customer service now expected," he adds.

"Build-to-order" is the objective of many manufacturers in industries from cars to personal computers. The benefits of building to order include sharp reductions in stock and lead times to delivery.

Mr Watts claims that the APS approach has delivered reductions in stock levels of up to 60 per cent and cut lead times to a quarter at some of his customers.

The leading ERP

applications vendors such as SAP, Baan and SSA were to varying degrees wrong-footed by their customers' conversion to APS and are now racing to introduce APS functions into their program suites.

SAP's Scope development project will deliver, among other things, an advanced planning and optimisation (APO) product, due for general release in December.

This will compete with leading APS vendors such as I2 Technologies, Manugistics, Numerix and Scheduling Technology Group, whose specialised products have been bolted on to installed ERP systems to provide the extra functionality that manufacturers want.

SAP has had 260 people working on the development of its APO product in Germany and the US since September last year and introduced it at 15 pilot sites during the summer.

Charlie Ward, head of the Scope initiative in the UK, said that APO would bring short-term benefits to manufacturers who had up to now only derived longer-term benefits from its R/3 ERP suite.

In particular, manufacturers will be able to do far more accurate demand planning, he says.

Fast-growing software sector

Now more commonly known as "advanced planning and scheduling" (APS) systems, this sector has become one of the fastest growing in the software market, according to a recent survey by the US

Consulting Automation Research Corporation.

It says the APS market

grew by 60 per cent last year

and it expects APS sales to

rise from \$225m in 1997 to

\$3.8bn by 2002, as the

take-up of the systems

spreads down from the

largest producers to a much

wider market. APS has

already taken off in the US

and looks set to do the same

in Europe, according to

ARC.

The reason for the growth lies in the quest for better customer service and pressure on manufacturers

by the big retailers to introduce new methods of trading.

ARC's survey concludes that the drive by retailers to adopt vendor-managed inventory and efficient consumer response systems

YEAR 2000 PROBLEMS

Disruptions are expected

From previous page

2000 adviser to governments in the UK, South Africa and Australia, says: "It's pure myth that the bulk of the cost of year 2000 readiness is due to hardware. Less than 1 per cent is spent there."

Smaller companies also face hefty bills - a typical year 2000 PC project for a UK company with 500 staff will cost more than £528,000 (£871,000), according to the new Alpine report.

Karl Fielder, president and chief executive of the international software company, Greenwich Mean Time, (<http://www.gmt-2000.com>), says: "Our tests reveal that there are actually five separate layers of each PC that must be tested and fixed: the hardware itself, the operating system, the software programs, user data, and data that is imported and exported."

"According to Action 2000, the UK government's Y2K advisory body, there are 3.5m small businesses in Britain."

In the US, the Cap Gemini

survey shows that

corporations are finding year

2000 work unexpectedly

costly and difficult. The

percentage of companies

under-estimating year 2000

costs increased from 52 per

cent to 87 per cent since

December, with only 2 per

cent describing their cost

estimates as "on target."

Meanwhile, 68 per cent are unable to assess whether they will be able to adhere to 1999 spending projections.

While all of that is bad enough, a survey says that US corporations relying upon others to provide key products and services could be faced with disruptions in supply chains. Based on a combination of project progress and risk failure factors, the survey found the utility, transportation and health sectors were in the greatest danger of Y2K computer failure.

If this situation does not improve dramatically, US corporations could find that even though they and their immediate manufacturing suppliers and customers are in compliance, they will face uncertainty in how much power and water they can obtain, whether or not they can physically move their products to market - or even offer employees proper health insurance.

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UNIT 8 LOGISTICS AND THE SUPPLY CHAIN

EUROPE'S NEW CURRENCY • By Geoffrey Nairn

Distribution networks braced for big impact

Retailers will be forced to rapidly overhaul supply and distribution to cope with pan-European sourcing and more volatile demand patterns

The arrival of the euro presents European companies with a golden opportunity to consolidate fragmented supply and distribution networks and create a single pan-European market.

Supply chain management is still in its infancy in many European companies, but consultants believe the advent of a single European currency will stimulate new interest in using IT to tie together their fragmented supply chains and create more efficient distribution networks.

However, many companies have not yet woken up to the full impact of the euro and their vision is limited to fulfilling the legal requirements of the new currency and the functions necessary for the dual-currency phase, which starts in January 1999.

"They have not yet considered the impact on the supply chain," laments Chris Huckle, a director at consultancy Price Waterhouse Coopers (PwC). "It's just not on their radar yet."

With the introduction of the euro on January 1, the elimination of exchange risks and costs will make cross-border trading easier. European companies will find it easier to source components and sell products in the 11 countries that make up the eurozone.

"Today, it is much more cumbersome as you have to deal with currency fluctuations," says Peter Jorgensen, a euro specialist with IBM's retail and distribution division.

The euro will have a profound impact on supply chains in Europe which have evolved to serve mainly national markets and are thus ripe for rationalisation once the currency barriers

(ECR) that assume a highly predictable demand.

The euro could lead to more volatile demand for some products as consumers will be more inclined to cross borders to take advantage of pricing differences.

According to Chris Huckle of PwC, these "arbitrage opportunities" could create "unpredictable and illogical demand patterns" in products whose demand has traditionally been very predictable — such as canned tomatoes.

"A retailer might want to redesign its sales force around regions rather than countries," says Mr Jorgensen.

"That will have a heavy impact on its IT systems because today they are typically different in different countries."

Specialists in marketing claim the "Domesday scenario" can be avoided and the euro's impact on differential pricing minimised with more emphasis on branding.

They argue that consumers will happily pay more for one product than another across Europe.

Once these products are priced in euros, the pricing differences will be much more obvious and difficult to sustain, retail consultants predict.

Mr Jorgensen talks of a "Domesday scenario" in which prices converge rapidly across the eurozone, forcing retailers to rapidly overhaul supply and distribution to cope with pan-European sourcing and the more volatile demand patterns created by the greater "price transparency" that the euro promises.

Companies will need to make a much more aggressive use of IT to handle this fundamental change," he says.

The large food retailers operate today on tight margins and over-stocking is kept to the minimum with short supply chains and using techniques such as efficient consumer response

come down.

After the arrival of the euro, Austria is just another German-speaking country," says Mr Jorgensen, who sees regionalisation based on language as one solution for retailers to cope with the challenges created by a single currency zone.

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In Italy, a customer pays for her breakfast in a restaurant-bar using euro bills in the Tuscan town of Fiesole, where euros worth £750m (£440,000) were put into circulation in an extensive trial of the new money. All the bills disappeared, swept up by collectors

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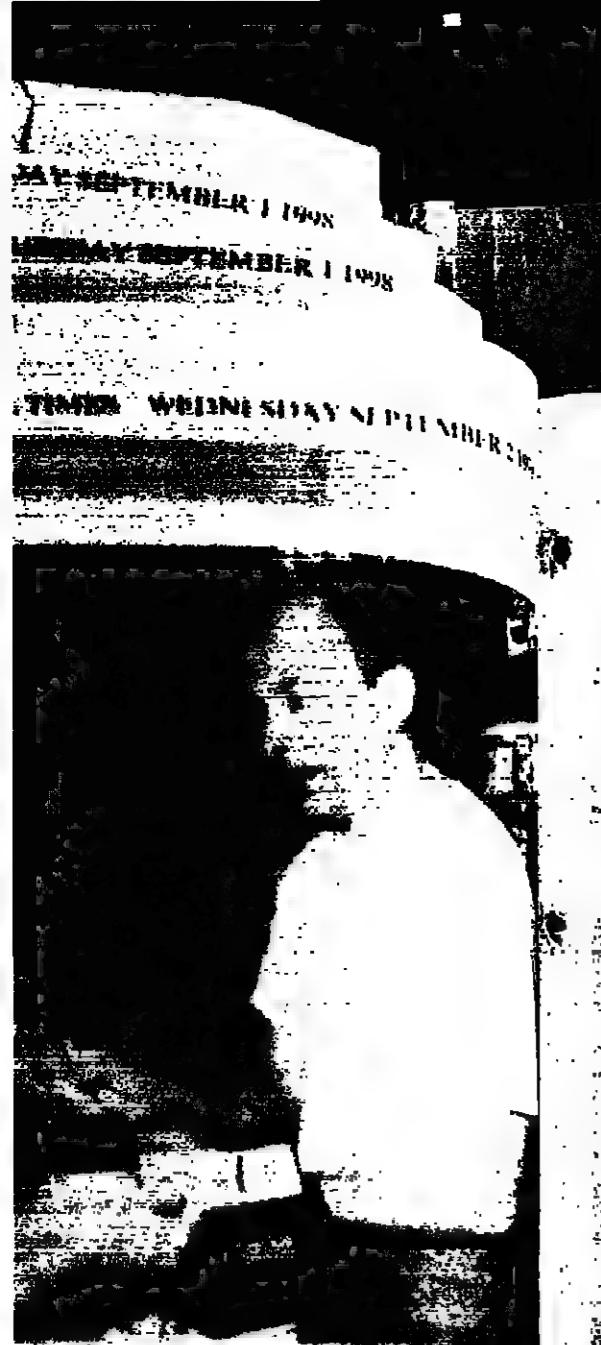
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Once



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still do the bills disappears, except up by collectors
experienced in upgrading
their systems in the new era.
"We are now both NAP
and Baan. It's open now in
the European Enterprise
Resource Planning (ERP)
market are well advanced in
adapting their systems to
handle the technical chal-

problems



ERP MARKET • By Geoffrey Nairn

Software vendors target smaller companies

Suppliers offer a new range of cheaper, headache-free solutions to small and mid-sized organisations

After years of astonishing growth, the market for enterprise resource planning software is showing signs of cooling. The industry has become a victim of its own success, experts believe, because there are today few large organisations that do not have an ERP project running or planned.

With growth from their traditional customer base slowing, the mainstream ERP vendors such as SAP and Baan hope to find new revenues from smaller businesses that, until now, they have largely ignored.

AMR, a US market analysis company, estimates there are 50,000 mid-sized manufacturing sites worldwide that today are running old manufacturing resource planning (MRP) systems – the predecessor to today's ERP technology. Many of these systems are close to obsolescence and if the ERP industry could persuade their owners to upgrade to ERP, AMR predicts it would generate fresh revenues of \$15bn to \$20bn in application software and related services over five years. The problem, however, is that ERP software has a reputation as a complex technology that only the biggest companies can afford – manufacturing giants such as Boeing and Ford are classic ERP users.

Time and money are often in short supply in small and mid-sized enterprises (SMEs) and ERP projects have a reputation for consuming large quantities of both. For big organisations with multiple sites, ERP software licences can be very costly while projects may grind on for several years. Smaller companies balk at the expense and commitment involved in traditional ERP systems but are keen to use the technology if only it could be tailored to their more modest needs.

These needs have traditionally been ill-served by the ERP industry as Spexel, a small Canadian paper manufacturer, discovered when it was looking to buy ERP software to run its business.

The company needed to have its new system operational in just four months and turned to Spexel's six big ERP suppliers.

"Most of the vendors dropped out because of the time constraint or because we were too small of an account," says Eric Martin, Spexel's director of information system development. Spexel eventually chose Baan because its ERP product seemed better suited to the needs of paper industry and got the systems running in just 11 weeks.

Along with many smaller companies, Spexel used Intel-based servers and the Windows NT operating system to run its business instead of the more costly Unix systems favoured by larger ERP customers. Analysts see the growing maturity of Windows NT as an "enterprise" operating system as one of the most important factors driving the low-end of the ERP market. In the past year, Baan has seen the share of ERP licence sales that comes from PC-based systems running Windows NT rise from 5 to 35 per cent.

"We continue to see a growing migration of customers to the Microsoft Windows NT platform," says Tom Tinsley, Baan's chief executive. Earlier this year, Baan unveiled a strategy to attack the SME market with packaged ERP applications that run on a variety of hardware, operating systems and databases.

The aim, according to Baan, is to provide smaller companies with a "complete solution that is fully integrated and ready to run, right out of the box."

These product "bundles" attempt to take many of the headaches out of choosing, installing and configuring ERP systems by providing SMEs with pre-tested combinations of software and hardware from vendors such as Compaq, Digital and HP. Customers can choose from SQL Server, Oracle or Informix databases and Windows NT or Unix operating systems.

Baan last year created an indirect sales channel to sell its products to SMEs and complement its existing direct sales force, which only sells to larger customers. In its most recent quarterly results, Baan reported almost \$100m of direct sales compared with indirect sales of \$33m. Analysts say revenue growth in Baan's indirect channel has so far been disappointing even though it has adopted one of the most aggressive strategies to attack the SME market.

It is not alone. SAP, the industry leader, claims half the installations of R/3, its best-selling ERP product, are now in SMEs. A third of the 13,400 installations it had at the end of 1997 were in companies with revenues of less than \$200m and only 17 per cent were in big global enterprises with turnovers of more than \$2.5bn. Like Baan, it has created ERP "bundles" to make it easier for SMEs to use R/3.

Most of the big-name ERP vendors have their sights set on SMEs, much to the annoyance of the many less-known ERP vendors that have traditionally had this market to themselves.

One such is JD Edwards, comparable in size to Baan but not so well known. It has traditionally specialised in ERP systems designed for IBM's mid-range AS/400 computer – a favourite system for mid-sized companies that is now showing its age.

JD Edwards recently launched a new range of Unix and NT-based products but will continue to support

over open networks.

This shift is enabling smaller companies, previously deterred by cost and complexity, to join electronic commerce networks, allowing direct communications between suppliers and customers regardless of geography, and making it possible to rationalise the supply chain by cutting out distributors.

Roger Till, chief executive of the Electronic Commerce Association, says web-based EDI "will unquestionably be an important driver" in reducing costs in the supply chain.

"It is low cost – and it is very easy for small and medium-sized companies to get into," he adds.

its AS/400 customer-base.

SSA is another mid-range

ERP vendor

traditionally

strong

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The mid-range ERP market has suddenly become a lot more competitive and at first sight the big vendors seem well-placed to extend their dominance into this arena. However, analysts warn that while SAP and Baan have strong product ranges, they have little experience of selling to the SME market and lack the industry focus and customer loyalty that the smaller vendors have built up over the years.



The man who started it all: Tim Berners-Lee, inventor of the World Wide Web, pictured in his office at the Massachusetts Institute of Technology. Among the hundreds of business applications for web technology is the increasing use of web-based EDI.

EXCHANGING DATA: WEB-BASED EDI • By Nuala Moran

At last, a low-cost solution

Smaller companies can now afford to use web-based EDI in supply chain integration

Traditional electronic data interchange (EDI), in which trading information such as orders and invoices is transmitted in an open format across secure, privately managed networks, is being replaced by web-based EDI in which secure messages are passed over open networks.

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"It is low cost – and it is very easy for small and medium-sized companies to get into," he adds.

Smaller companies can now afford to use web-based EDI in supply chain integration

Highlighting the difference in cost, David Cullis, managing director of Kewill Electronic Commerce, a supplier of electronic commerce software and services says: "In the past, the expense of traditional EDI solutions, which can cost anything up to £10,000, has restricted their take-up."

Now, he says, even the smallest companies can trade online using internet-based services such as Kewill's Xtra Trade. "For only £250 a year, organisations will be able to exchange catalogue information, orders, invoices, advance shipping and sales information, with multiple retail trading partners."

One of the companies using Xtra Trade is the long-established UK department store group, Bentalls. Sarah Roper, operations director for the group, says: "We have been using traditional EDI with a limited number of suppliers for some time.

"However, take-up of this technology has been relatively slow as something like 80 per cent of our suppliers are small businesses which don't have the resources to invest in EDI software and trading costs."

Ms Roper cites three reasons why adopting Xtra Trade will enable Bentalls to build its electronic trading community: "First, it is low cost, at a connection fee of £21 a month," she says.

Second, it offers a comprehensive range of messaging options. "We are particularly keen for suppliers to use Xtra Trade to build electronic catalogues, which will significantly reduce the data processing burden and guarantee the accuracy of information from both sides."

Finally, because Xtra Trade is based on open standards, multiple retailers can benefit, avoiding significant duplication of effort.

Bentalls is now working in collaboration with rival store groups Alders and Selfridges on an awareness and education programme to encourage small and medium suppliers to trade with them via the Xtra Trade service.

A similar initiative is under way among UK supermarkets, with moves to create a shared web-based EDI network. "Given that supermarkets have so many suppliers in common, if you want to optimise the supply chain, then using the Web is the only way to go," says John Lister of ASDA.

"It is unreasonable of supermarkets to demand that every supplier has a different way of dealing with them."

One large supplier who concurs

with this view is David Laing, logistics and management systems director of CCL Custom Manufacturing, which fills and packages aerosol and liquid goods ranging from household cleaning agents to personal hygiene, pharmaceutical and automotive products for large companies including Unilever, Procter & Gamble and Bristol Myers Squibb.

Some suppliers are forced to use different PCs, each configured separately, in order to meet the different EDI protocols used by their customers, he says.

CCL is now using the open standards of the Internet to give customers and suppliers access to supply chain information. "At any time, a customer will be able to drop into our web page and view their order status. Equally, our raw material supplier will be able to download our planned production schedules and see how they need to re-align their own production plans."

The days of posting production schedules on hard copy and disc will soon be over."

In recent years, large companies have cut costs out of their supply chains by restricting the number of

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CASE STUDY: INTERNATIONAL BOOK DISTRIBUTORS • By Philip Manchester

Service levels enhanced as sales rise ten-fold

In managing a site with 23 million books, IBD is holding its own in an increasingly competitive market by using its IT systems to the full

International Book Distributors (IBD), a UK subsidiary of the US Viacom group, has seen its sales volumes increase by ten-fold in the last five years – but it has managed to achieve this extraordinary growth with only a four-fold increase in staff.

In 1993 it operated its pan-European distribution activities from an 86,000 sq ft warehouse stocking some 3.5m books. Now it runs a 210,000 sq ft site managing 23m books – with the prospect of a continuing increase in volumes. The company is currently in the process of being taken over by the Pearson Group.

Inevitably, IT has played an important role in keeping control of the rapid expansion of its business at the same time as holding staff

levels and costs down. With a current annual growth rate of 30 per cent in its business – and limited resources – IBD is keen to exploit its IT systems to the full.

At its Hemel Hempstead headquarters, IBD runs an IBM AS/400 commercial package called TMS Bookmaster to handle order processing and accounting.

The package is connected to the warehouse at Lutterworth in the Midlands via a dedicated kilostream link.

The sales orders are fed into the TMS application and then sent to our warehouse management system to pick and pack the stock for shipment," explains Keith Clark, IBD's inventory manager.

IBD uses Acacia Technologies' Warehouse Boss package to cope with the highly complex business of managing

its warehouse and stock. The package – chosen because it runs on the AS/400 computer – links directly to the TMS order processing system. It also lets IBD handle the distribution activities of third-party suppliers.

"Without the warehouse management system we would not be in the position we are in now and certainly would not attract important third party companies," says Mr Clark.

The flexibility of its IT applications is the key both to improved service and better warehouse organisation, adds. "Our system gives us complete control around the warehouse. We can optimise our picking lists to save time. And we can also control where we put stock. We can be sure that we put it in the right place first time round – saving us time and effort in relocating books."

In addition to managing the growing volume of sales – at peak times IBD can ship over 2.5m books in a single month – Mr Clark says that the company has managed to improve customer-service levels.

It operates two delivery services via Securicor Omega in the UK, for example. The Hotline service requires despatch on the same day as the order – with delivery the following day. The normal delivery service ships books within two days and delivery within three. It also promises guaranteed delivery within five days to all EC countries.

The improvement in its service has been recognised by an upgrade in IBD's ranking by the Committee of University Book Sellers (Cubs). Three years ago, IBD was ranked 18th – now it is ranked 8th by Cubs and is rated as one of the companies which has improved fastest.

The improvements in its distribution network have also been recognised by the book trade. A growing number of third parties – including publishers of books on computers and for children – are now using its distribution services.

Inevitably, third party organisations have different requirements and IBD's IT systems must be able to handle these. Some third party stock is controlled alongside IBD's own stock and some is operated as separate "logical" warehouses.

"Without the warehouse management system we would not be in the position we are in now and certainly would not attract important third party companies," says Mr Clark.

The flexibility of its IT applications is the key both to improved service and better warehouse organisation, adds. "Our system gives us complete control around the warehouse. We can optimise our picking lists to save time. And we can also control where we put stock. We can be sure that we put it in the right place first time round – saving us time and effort in relocating books."

In addition to managing the growing volume of sales – at peak times IBD can ship over 2.5m books in a single month – Mr Clark says that the company has managed to improve customer-service levels.

It operates two delivery services via Securicor Omega in the UK, for example. The Hotline service requires despatch on the same day as the order – with delivery the following day. The normal delivery service ships books within two days and delivery within three. It also promises guaranteed delivery within five days to all EC countries.

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More books arrive at IBD's 210,000 sq ft warehouse at Lutterworth. At peak times, IBD can dispatch more than 2.5m books a month

MOBILE DATA • By Christopher Price

Era of super scanners

The industrial market for hand-held computers sometimes appears to be the poor cousin of its more innovative consumer tide.

While the latter grabs the headlines with products carrying more features, having better integration and sleeker design, the industrial market pales in comparison.

Roger Goscomb, a logistics and telecoms consultant with CMG, the UK software and systems group, describes the products for the industrial market as "very dull" and in need of modernisation.

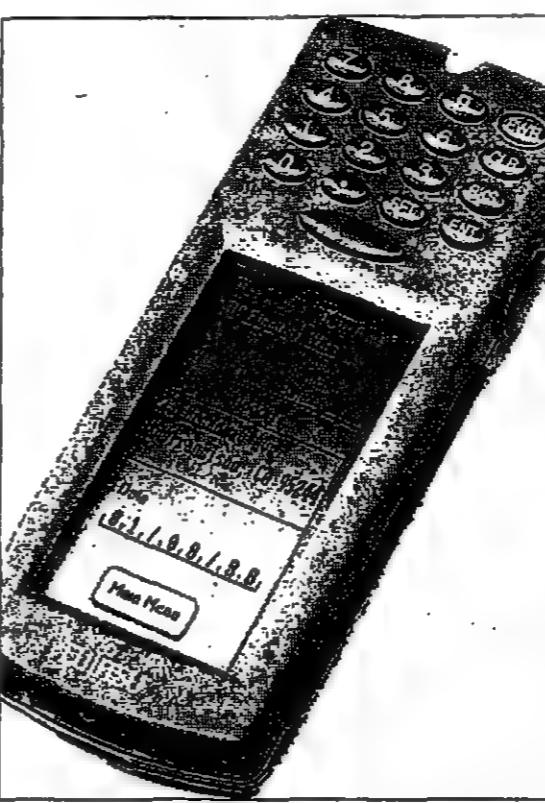
"There are too many companies still reliant on expensive proprietary systems for their logistical requirements," he says.

Geoff Kell, sales and marketing director for Psion Industrial, which manufacturers hand-held computers, says: "The commercial market for hand-held terminals is definitely more conservative than the consumer market. For example, there are very few 32-bit machines operating in industry, whereas on the consumer side its becoming standard."

IBD can control all stock movements in the warehouse through the Warehouse Boss package. This includes automatic replenishment of stock to meet customer orders and changes to workflow in the warehouse. It also enables IBD to make the best use of its warehouse space – despite the continued growth in its business.

"We have to keep on finding more space for more products – and automation is the only way we can do that effectively," says Mr Clark.

IBD is holding its own in an increasingly competitive market and has shown that its IT systems can enable it to keep up with international rivals.



The new TeamPAD 7100 from Fujitsu ICL can be used for supply chain management, logistics and retail applications. Features include a touch-screen, integrated barcode scanner, plus easy-to-use radio communications and a 32MHz processor

to be read.

Psion also demonstrated its Vehicle Interface Cradle, a dashboard docking unit for vehicular monitoring. Among a range of modules to go with the VIC are facilities for satellite tracking via Global Positioning Systems, which enable the vehicle to be located by its office or depot.

There is also Vehicle Data Acquisition technology, which allows the input of a variety of data about the vehicle's performance. The additional knowledge this provides to fleet management "can lead to massive savings", according to Psion's Mr Kell.

The company has recently signed an innovative contract with Bilk National, the UK security systems group. The £500,000 two-year deal also involved Three X Communications, the systems integration group, and RAM Mobile Data, the radio network company.

Previously, Bilk offices would be the location where customers rang in their orders and Bilk engineers were in contact to receive them.

This led to congestion, as well as time wasting while engineers waited to get through to their offices. However, using the Workabout and the RAM radio network, engineers are able to access the group's central computer to transmit their daily call lists. The computer can then be used for real-time messaging, which is useful for arrival times and spare parts used.

Bilk believes it will save £50,000 a year in communications costs by phasing out its mobile phones and pagers, and a further £100,000 a year in vehicle running and fuel costs.

It is developments such as these which lead some in the industry to be more optimistic that industrial hand-held computing is shaking off its dull image and beginning to play a far bigger role in many organisations.

ware to produce their own paperwork and bar codes.

Establishing computer-based communications between City Link depots and the group's regular customers was deemed to be more responsive to new technology.

Instead, it has adopted two-dimensional bar codes. This has allowed regular customers to incorporate much more detailed information on their parcels – and allowed City Link personnel equipped with Symbol PDT6100, which Mr Wilson describes as "our smallest and lightest scanner to date".

Pilot introduced updated versions of its Workabout range, which included models with enhanced scanning capabilities.

For example, ID Systems, Blackrock Systems and Delta have developed applications which enable Radio Frequency Identification tags – increasingly popular in warehouse inventories – to be read on the Palm Pilot, 3Com's successful stylus-based computer.

Another theme much in evidence was ergonomics, with models becoming smaller and easier to carry. Symbol unveiled its PDT6100, which Mr Wilson describes as "our smallest and lightest scanner to date".

Pilot introduced updated versions of its Workabout range, which included models with enhanced scanning capabilities.

Symbol has used the two-dimensional barcode as the basis for an integrated solution for City Link, the UK parcel delivery group. The problem for City Link was in keeping track of the progress of packages once inside the delivery system.

This applied mainly to business generated by the group's regular customers who were supplied with soft

A function being increasingly adopted through the hand-held industrial market is pen-enabled screens.

These allow the user to input and access data with a pen to the screen. They provide much more flexibility in a work situation, plus they have the added advantage of not needing the user to have keyboard skills.

At this year's giant CeBIT trade fair in Hanover, Germany, the latest developments in the industrial market were on show. Symbol, for example, unveiled a new range of hand-held products



Pilot has introduced updated versions of its Workabout range, which included models with enhanced scanning capabilities

WEB-BASED EDI

World network of 2,500 suppliers

From previous page

suppliers with which they deal. Web-based EDI could reverse this trend without pushing up costs.

Nuovo Pignone of Florence, Italy, which manufactures turbines, compressors and other heavy machinery sources 70 to 80 per cent of its supplies from 300 companies. However, the company, a subsidiary of General Electric, has 2,500 suppliers – and these are scattered all over the world and range upwards in size from two-person machine shops.

Formerly, Nuovo Pignone had a traditional EDI network for trading with its large suppliers, but no electronic trading links with the 2,000-plus smaller ones.

The company has now installed an extranet, allowing smaller suppliers to deal electronically via the Internet, while larger suppliers still have the option of traditional

EDI over a value added network. Smaller suppliers have access to the same features as traditional EDI, without the start-up costs and with none of the complexities.

Nuovo Pignone can track the activities of its suppliers, and at the same time give them access to sensitive data.

Impact

Simon Harrison, associate director of the transport and division at the IT services company, CMG, says web-based communications will have a profound effect on supply chain integration.

"Applications that could benefit include fleet management, distribution scheduling, just-in-delivery, automatic reordering systems, proof of delivery, on-line pricing, regulations and specifications and the centralisation of documentation."

Catherine Markey in Edinburgh

Tel: +44 131 220 1199

Fax: +44 131 220 1578

email: catherine.markey@FT.com

Financial Times Surveys

Logistics

Tuesday December 1

For further information please contact:

Catherine Markey in Edinburgh

Tel: +44 131 220 1199

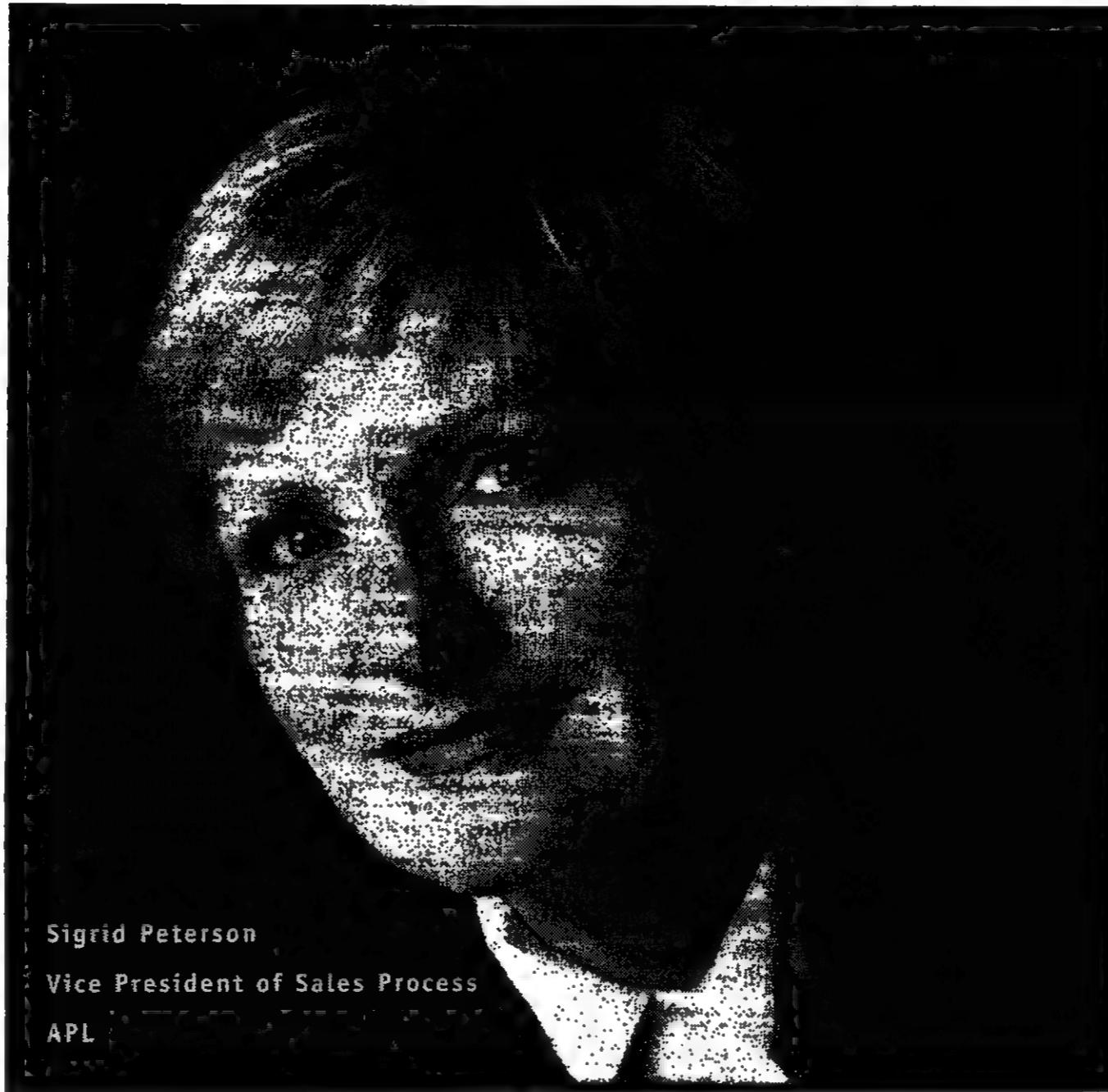
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Financial Times

No FT, no comment.

SIEBEL SOLUTIONS: GLOBAL SALES EQUALS GLOBAL SUCCESS



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SECTION 12

SECTION TWO: MAXIMISING SALES

Campaign managers sharpen up their act

New software solutions help companies to target potential customers and follow through to win results in the marketplace, reports Rod Newing

Many companies are building customer-oriented data warehouses to gain competitive advantage. They use them to analyse buyers' choices, segment their market, target prospects more closely and predict buyers' behaviour. There has long been talk of linking the data warehouse to operational systems, but with little real substance so far.

However, users are beginning to see how data warehouses can be linked to campaign management software to provide an automatic two-way information flow.

Companies have been building data warehouses for ten years "as something on the side," says Arthur Parker, vice president for IBM's global business intelligence solutions. "They took a snapshot of data, analysed it and this influenced some of the marketing decisions they took. However, you need a strong structure to use the information in an operational sense."

IBM has just announced an agreement to include Exchange Applications' Vortex campaign management software in its Decision Edge vertical marketing solutions. NCR, another high data warehousing specialist, already has its own Automated Individual Marketing Sales (AIMS) product that performs a similar function - see also the data warehouse report by George Black in the section on logistics, page 8.

The link between the data

warehouse and the campaign management software allows the marketing department to build a system that focuses on events, not merely analysing data. "A customer transaction could act as a trigger to an automated pre-planned personalised campaign," says Mr Parker. "It is more sophisticated than just using the data warehouse to plan a mail shot. And it unlocks some of the potential within it."

Wider trend

The integrated approach being taken by IBM and NCR is part of a wider trend. Vendors such as SAS, Prime Response, Epsilon and Action are also building "end-to-end marketing solutions," says Phil Hulme, a senior consultant in the customer value management group at KPMG Management Consulting.

These systems allow users to identify target groups and follow through to win results in the marketplace, creating a virtuous circle of knowledge management.

Ready-built solutions are ideal because integration involves many tedious processes. It was once very hard work for user organisations to achieve this," adds Mr Hulme. "Brand Viper is also popular for achieving a similar effect with just desktop data."

Even without a data warehouse, campaign management software is becoming more important. "As marketing departments segment

FT
IT

Sales and marketing

Here and on the following four pages, FT writers focus on the growing role of IT in the marketplace

their market into a series of smaller areas, the annual campaign is being replaced by a different one each week," says Gareth Hershel, research analyst for technology-enabled relationship management at the Gartner Group.

Marketing teams have to be more efficient in running each campaign, so they need more technological support and better applications," he says. "The latest software from vendors such as Prime Response and Intrinsic is much more powerful and user-friendly than previous versions."

These campaign management systems need to work in conjunction with the confusingly named sales force automation packages. The

sales process itself cannot be automated, but the software acts as an enabler to support better ways of working for the sales force and gives them more effective means of dealing with customers, says Stuart Penny, founder of software vendor Integrated Sales Systems.

"Big changes can be made by jointly harnessing the power of people, technology and processes," he says.

Globalisation is now a key issue in the marketplace. At KPMG, Mr Hulme says: "Our clients have very large customer base, operating in a wide range of countries and locations. Vendors such as Vantive have an advantage because they have a worldwide infrastructure that can support a big roll-out."

Software vendors are expanding, consolidating and integrating with enterprise resource planning (ERP) suppliers. Gartner's Mr Hershel says: "Exchange Applications has been very successful in the US and is aggressively expanding into Europe. Prime Response, which was traditionally UK and European, is moving aggressively in the US."

"Meanwhile, British Intrinsic is expanding into Europe and Acquis is looking beyond its established French market."

The ERP vendors' "back end" accounting, manufacturing and human resources market is mature and they are looking to the front-end customer-facing systems to provide future growth. SAP has developed a product it acquired from Kiefer and Visiting, and Baan has purchased Aurum.

KPMG believes that taking a customer-centric approach is a "big new wave in software that is just starting - vendors are reflecting this approach. Aurum, Siebel and



Shoppers throng London's Oxford Street. Retailers are more likely to attract them with the aid of management technologies that help to identify what customers want, claims Siebel Systems

Vantive are building integrated customer relationship management tools that support anybody who has an interaction with the customer," says Mr Hulme.

"A data warehouse doesn't necessarily present a consistent customer-centric approach in the way these products link the sales force, the support desk, the call centre and the web site."

US example

Computational Systems, a leading developer of predictive maintenance hardware and software, has implemented Vantive for its 180 sales and support professionals, including more than 60 mobile users, located

throughout the US. "We have replaced separate customer databases with a single database for sales and marketing, campaign management and customer support and linked it to our Fourth Shift ERP system," says Mr Hulme.

"Sales staff can check the support case histories on their notebooks before visiting a customer and we can trace an order back to the original advertisement, but the big pay-off is targeting the sales force on high opportunity sales."

In Europe, the use of the Internet for sales and marketing has not taken off in the way it has in the US. Gartner analysts are revising their Internet adoption forecasts for the next two years.

Although there is a lot of interest and hype, vendors are more active than customers in Europe, says Mr Hershel.

Meanwhile, businesses that apply enterprise relationship management technology across their marketing, sales and customer service processes are those that are likely to better acquire and retain customers, concludes Ms Par House, co-founder of Siebel Systems.

"They will also increase customer satisfaction, enhance revenue and profitability and ultimately survive through the next millennium," says Ms House.

"As part I'm help

CASE STUDY: INTERNET SALES

By Geoffrey Wheelwright

Dell's online PC sales surge ahead

In a move to win even more customers, Dell launches an 'online secure shopping guarantee' in the US as its PC sales rise to \$6m a day

er to any outside company.

Michael Dell, chairman and chief, says that Dell has grown more than six times the industry rate. Revenues for the three months to August 2 were \$4.3bn, up from \$1.8bn a year ago.

Canadian example

The US is not the only country in which Dell has recently boosted its online sales efforts. In Canada, for example, where you might think that geography and transportation logistics would militate against online shopping, Dell has enjoyed huge online success.

According to Scott O'Hare, president of Dell Canada, it took less than eight months to build an online business in the country - "sales went from nothing to \$2.5m a week."

Mr O'Hare says "there is no magic in all this" - just a strong commitment to treat online sales in the same way that it has successfully treated its 1-800 telephone

sales operation.

"The Internet is just another way of turbo-charging our direct sales engine - it provides another vehicle to reach them," he says.

Since the company started taking electronic orders from its web site in June 1997, it has built up what could become a \$100m business this year.

One of the keys to this success lies in the fact that selling from a web site is little different from selling via the phone - and it doesn't change the underlying business model of the company - at least for Dell, which is used to selling direct to customers.

"Unlike all of our competitors and many other companies in different industries, Dell has not had to reinvent its business model to make use of the Internet," says Mr O'Hare. "It's just the next natural extension of how to build a relationship with a customer."

He also suggests that the attributes of the Canadian market - with a comparatively small population scat-

tered across a vast area that is the second largest nation on earth - make Dell's direct approach an ideal alternative to retail sales.

"If anything, the geography makes us even more cost-effective than the other tier-one vendors - we don't have to deal with higher cost distribution," he says.

"In Canada, out of the top four suppliers in the PC market, we are the only direct vendor. All of our competition goes through retail or resellers - it adds a lot of cost unnecessarily and also doesn't allow manufacturers to provide total end-to-end quality and customer experience."

He is well aware that his competitors are looking hard at the Dell model and trying to find ways to make it work for them. Compaq Computer, IBM and Apple Computer have all made moves over the past year to provide some form of direct or "build to order" capability to customers.

Mr O'Hare suggests that by selling to Canadians from Dell Canada's web site, then Canadian customers can obtain better pricing, delivery and specification information than from the American-based web sites of other competitors. "Our Canadian customers can access www.dell.ca and get very specific Canadian information, pricing and lead times, specifically for Canadian customers," he adds.

And unlike buying a PC over the phone, Mr O'Hare says Web site purchases can also be a lot faster as consumers can quickly pick the specification for their systems from on-screen options, rather than stepping through many levels of menus and choices from a telephone operator.

"There are a significant number of choices that you, as an educated consumer, can make in buying a PC online," he adds. "It's not like having just three 'flavours' on the shelf of your local retailer. We have been successful in helping businesses and consumers make those choices over the phone, but with the Web site you can make those trade-offs in real time."

The web site can also be used to track the progress of an online order - which, typically, is delivered five to 10 days after ordering.



Michael Dell, chairman and chief executive, says the company has grown more than six times the industry rate

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"As part of Lucent Technologies, I'm helping to take communications in Europe to new heights."

JAN NEUTEBOOM. Manager, Software Development

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INTERNET COMMERCE: EUROPEAN PERSPECTIVE • By Geoffrey Nairn

Wanted: buyers not surfers

Electronic commerce has vast potential and smaller companies are eager to get online. But unless issues such as security and payment systems are fully addressed, then market growth will be constrained

The Internet means many things but for Europe's 17m smaller businesses it signifies a golden opportunity to compete on equal terms with bigger competitors in a new virtual marketplace.

The number of online users grows each day - 100m are predicted for the end of this year - and for small and medium-sized enterprises (SMEs) the Internet seems to provide a cheap and painless method of rapidly growing their business.

However, things are not that simple for while the number of online buyers is rising, competition is also growing for what is still a small market, particular outside North America. "Internet commerce badly needs consumers, not simply surfers," says the European Information Technology Observatory, which represents Europe's IT industry.

It predicts revenues generated by sales and advertising on commercial websites in Europe will grow almost 240 per cent this year to Ecu8.5bn (£7.08bn). That may seem large, but a

comparison puts things into perspective. Europe's entire e-commerce market is equivalent in size to the turnover of just one large retailer, such as Confinant, the French hypermarket chain.

"Simply translating your physical marketing channels to the virtual is not going to generate additional sales," they say.

Cedlerts Fisk, a small Swedish luxury food supplier, offers a good example of how the Internet can be put to more imaginative use.

Traditionally selling just to restaurants, managing director Christer Ohlom hit upon the idea of using the Internet to also sell lobster and salmon to consumers.

"I was convinced that it could provide us with a low-cost and highly practical means of reaching new markets," he says.

Another problem is that most small companies give little thought to how they will encourage visitors to their online store. Today there are thousands of e-commerce sites, making the Internet "considerably more competitive than your local shopping mall or high street," say the authors.

"Passing trade on the Internet is close to zero," they say, and anyone expecting thousands of eager buyers to accidentally stumble on a site "will almost certainly fail."

So why set up an online store if the chances of success seem so small? According to the above

Internet commerce poses many

challenges for SMEs - and not just those selling seafood. The European Commission recently published a set of guidelines to encourage European SMEs on to the Internet and spell out the problems they face. The EC is concerned that the potential of e-commerce is not being fully realised by the 17m SMEs in Europe. "E-commerce clearly has a great deal to offer SMEs but there are issues which will need to be resolved if this is to be achieved."

The report breaks down the issues into four broad areas: product information and marketing, trust and security, payment systems, copyright and consumer protection.

In the first case, the Commission hopes to make it easier for SMEs to be found on the Web by introducing a standard system for classifying companies and products in online databases and search engines.

The problem of trust has

traditionally been seen as one of the biggest hurdles to doing business online and it particularly affects SMEs, the Commission claims.

Solutions based on digital certificates have existed for some time but they are often incompatible and there is an added problem in Europe as the necessary infrastructure of Certification Authorities (CAs) is immature. To achieve the goal of authenticated commerce within



Passing trade on the Internet is close to zero, claim the authors of 'Business in a Virtual World'

Europe requires that links be built between the national CAs of European countries. Today, there is no guarantee that a certificate issued and legally valid in Portugal will be recognised when the user attempts to buy from an online store in France.

Without these "cross certification" links, the consumer faces the humiliation of rejection and the trader loses a sale.

Payment systems are a more mature internet technology, but incompatibilities persist.

For SMEs, the biggest hurdle is

the fear of losing what may be a significant payment if something goes wrong. The guidelines recommend that payment system providers should bear the major share of the risk to encourage SMEs to accept e-payments.

The final item that the EC wants addressing on its e-commerce agenda is the legal minefield that currently surrounds e-commerce. "There is a danger in the new virtual environment that legal uncertainty will arise about which member state is competent

and which law applies." Copyright legislation needs to be updated to protect electronic works, the EC says, and it wants purchases made on the Internet to enjoy the same validity and consumer protection as those made on the High Street.

The e-commerce market has enormous potential and European smaller companies are as eager as anyone to get online. But unless these non-technical issues are addressed, market growth is likely to remain constrained.

ANALYSIS OF RETAILING PATTERNS • By Philip Manchester

Customers in sharper focus

In seeking ways to respond to customer demand, a leading supermarket chain is moving from information management systems to knowledge management

The use of advanced IT tools for demographic analysis of customers has brought significant benefits to retailers. Comprehensive databases of customers' shopping habits have enabled retailers to make sure they stock the right products and get them on the shelves at the right time. Not only can stock levels be optimised, but customers buy more of what they really want.

But now that most big retailers use some form of demographic analysis, knowledge about groups of customers is no longer enough: "We must be able to get down to individual custom-

ers and be able to serve them more precisely," says Mike Which, IT director at Safeway supermarkets in the UK.

With a database covering over 8m customers, this is no easy task. Safeway is the third largest supermarket chain in Britain with annual sales of \$10bn. It employs 70,000 people at more than 400 stores across the UK.

"We have changed the way we manage our business from looking at products to looking at customers. We need to know about every item in their shopping basket - and this means using very advanced IT systems both to collect data from the

point of sale and to analyse it," Mr Which says.

Loyalty cards are, of course, the key to understanding customers' buying habits. Safeway was among the pioneers of loyalty card schemes: "We have been involved in collecting customer information from loyalty card shoppers at the point-of-sale terminals. But this is only the first stage in the process of turning raw data into useful sales and marketing information.

"We keep data on customer transactions down to product level and we need ways to understand the data so we can meet their requirements," Mr Which says.

The need for flexibility into perspective. With its 400 stores linked via a satellite network to two data centres, Safeway has to manage a staggering 30 gigabytes of data generated by loyalty card shoppers at the point-of-sale terminals. But this is only the first stage in the process of turning raw data into useful sales and marketing information.

"We keep data on customer transactions down to product level and we need ways to understand the data so we can meet their requirements," Mr Which says.

This is where Intelligent Miner - IBM's "data mining" tool kit comes in. Data mining tools analyse large databases and tease out valuable information such as sales patterns. They enable an organisation such as Safeway not only to work out what products a customer buys - but also the kind of products that might appeal to them.

"Our competitive advantage is linked to what we know. So we have embedded data mining in the very fabric of how we do our business," explains Mr Which. As a result, Safeway is, for example, able to send out carefully targeted mail shots to customers about products it knows will interest them.

The improvement in sales from mail shots is to measure, he says. "We have taken segments of our customer database and sent mailshots to some customers

and not to others. We could see the benefits of the mailshot immediately and have been able to measure the payback. And these are large numbers so they are statistically relevant."

Safeway expects to be able to build upon the work it has already done on its customer information databases. Knowledge management is the next obvious step that it can take to improve its sales and marketing operations, says Mr Which.

"Even though we know a lot about our customers, we think we are only a small part of the way that we can go - and we are constantly getting new insights in to the data and our customers."

The next step is to move from information management to knowledge management. We are already trying new ways to respond to customer demand - hence our 'Shop and Go' approach.

The Shop and Go scheme allows customers to scan the bar codes on their own shopping using a portable scanner. Not only does this reduce the number of till staff needed, it also saves customers' time because their goods do not need to be unpacked and repacked at the till.

As the retail sector continues to become more competitive, Safeway is confident that its advanced IT tools will let it keep ahead of the game - although, along with its competitors, this will rely upon finding ways to innovate.



Data gathered at the checkout: Safeway has 400 stores, linked by a satellite network to its data centres. The aim is to analyse what individual customers are likely to buy

October 13-15, 1998

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BRITISH COMPUTER SOCIETY AWARD

The search is on for innovative IT teams

Nominations are sought for the next BCS award for information systems management

The annual UK award for information systems management has opened for nominations.

The prestigious IS

Management Award is run

by the professional body,

the British Computer Society,

in association with the Financial Times, and

sponsored by Blue Circle

Industries, Deloitte &

Touche, KPMG Impact,

Unisys, and Woolwich, the

financial services group.

The award recognises

achievement, improvement

and innovation in IS

management in the UK.

The judges look in

particular at impact on

business performance, the

relationship with

end-users, and the

management of

development or operations.

The award typically goes

to a team rather than an

individual. Past winners

report benefits in terms of

heightened status for the IT

department and even for

the entire organisation.

The 1998 winner, Halifax Share Dealing, developed a unique combination of IT systems to enable it to handle share trading for two million customers in its first week after Halifax Building Society converted to a quoted company. Key to the success was the relationship fostered between IT, end-users and IT suppliers.

Managing director Sue Constance said the award gave deserved public recognition to a critical and highly visible project.

The award has had a similar impact at other winners. The London Ambulance Service found the award increased morale when it won in 1997 after a new team ended 10 years of project disasters by successfully developing a command and control system. IT director Ian Tigh said: "The control room was buzzing for two weeks after the award ceremony, and it was great to see people holding their heads high after so many depressing years."

When P&O European Ferries won in 1995 after a massive business change project, IT director Nigel

Powis said: "The profile of IT in the company has been enhanced, suppliers have proved eager to associate themselves with our success - and the award has helped in recruiting quality staff."

Eagle Star Insurance, the 1996 winner, reaped commercial rewards, with sales consultants using the award in promotions.

The other past winners are Ford, Tesco, the supermarket chain; and Cheshire County Council.

How to enter

The entry procedure starts with a simple nomination form due in by December 18.

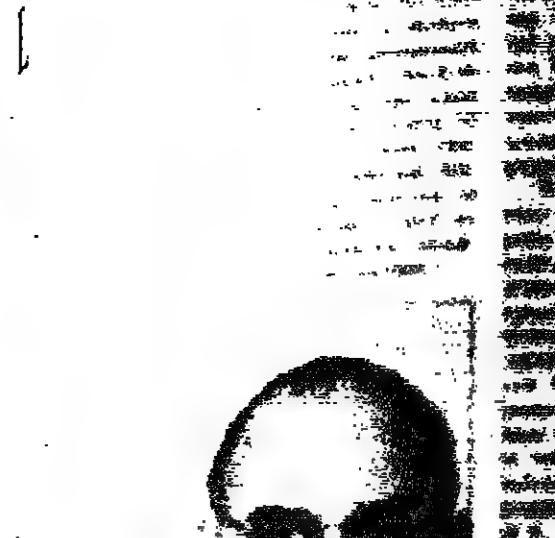
Selected entries are investigated by a panel, and three finalists make a presentation to a judging panel of senior executives.

The award will be presented at a prestige dinner, when the editor of the Financial Times, Richard Lambert, will be the guest speaker.

Nomination forms are available from Maria Teressa Muir on (01793) 417417; fax (01793) 417432. E-mail:

mtmuir@bcs.org.uk

screen-popping productivity b



Sales teams in convincing, to

Hand-held computers become smaller and smarter

The demand for specialist devices will lead to further fragmentation in the market that ranges from pocket organisers and palm-tops to 'smart' mobile phones linked to the Internet, says Christopher Price

Nothing exemplifies the current state of the market more than the experience of Psion, the world's biggest hand-held computer manufacturer.

Three months ago, the UK group made the latest in a series of gloomy trading statements about the state of the market. It warned that future revenues would be hit by a combination of pricing pressures and competition from products utilising the latest Microsoft CE operating system.

However, rather than fall on the news, Psion's shares more than trebled as the company also revealed the formation of a new venture which would licence Psion's software for a new generation of hand-held devices.

The new company, Symbian, teams Psion with Ericsson, Nokia and Motorola, which, between them, account for more than three-quarters of the world's mobile phone sales.

Symbian intends to develop Psion's EPOC operating system, which is used

to power the company's range of hand-held computers, as the industry standard for the new products. These will marry the power of the palm-top computer with the convenience of the mobile phone.

This has long been the holy grail of both the mobile phone companies and the computer manufacturers. Nokia has already attempted to do this with the introduction of its 9000 range, combining an organiser and phone.

However, Symbian believes the focus of the four constituent parties on one operating system will accelerate the development of a wide range of applications.

Analysts say the mobile phone will become "smart", having the ability to send and receive data. It will also be able to download from the Internet, as well as store large amounts of consumer electronics.

Analysts say Nokia, Ericsson and Motorola do not want to be subjected to the same kind of pricing pressures that has been such a

ing electronic mail from any location within a cellular transmission area. Early in the new millennium, the development of a new high-capacity cellular network will allow the transmission of video.

Symbian intends to charge a licence fee of \$5 per smart phone and \$10 for other communications devices in a market forecast to be selling 70m units a year by 2002.

However, the Symbian foundation has another important ramifications. By establishing the industry standard on Psion's EPOC operating system, it mounts a serious threat to Microsoft.

The world's biggest software group has made no secret of its desire to repeat its success in the personal computer market through the introduction of its Windows CE operating system.

In contrast, the personal organiser market has been buoyant and 3Com's Palm Pilot is chief beneficiary.

International Business Machines last month

prominent feature of the PC industry, where Microsoft software dominates.

The companies agree. "We do not want to become mere box shifters for Microsoft," says the director of one of the mobile phone companies.

In this regard, the three telecoms groups had little alternative but to turn to Psion. While the three had all developed and used their own operating systems, none had the potential or provided the platform afforded by Psion.

Conflict among the suppliers

The move is likely to accelerate the trend of the past two years which has seen the hand-held computer market fragment. This has been due to the market's growing sophistication which has addressed the demands of buyers with different requirements of their hand-held devices.

In contrast, the personal organiser market has been

buoyant and 3Com's Palm Pilot is chief beneficiary.

International Business Machines last month

Larger than life: using a replica of a hand-held PC and explaining the merits of Microsoft's CE operating system, Astrid Mai, right, and Christian Schroeder make a presentation at this year's CeBIT computer trade fair in Hanover, Germany, which was attended by more than 600,000 people.

For companies such as Psion - addressing the high end of the market, with its sophisticated Series 5 computer, this has brought it into conflict with the growing number of suppliers with computers utilising Microsoft CE, such as Casio, Hewlett-Packard and Sharp.

Price has also become an issue as the high end of the palm top market has touched the bottom of the laptop computer range. With an increasing number of products and rising prices, customer confusion has added to the manufacturers' problems.

In contrast, the personal organiser market has been buoyant and 3Com's Palm Pilot is chief beneficiary.

International Business Machines last month

ET OT

More power
in the palm
and the
pocket

Here and on the
following two pages,
FT writers highlight
advances in hand-held
computing.

devices, such as portable telephones, to run for much longer.

And in an echo of the Symbian venture, IBM says SOI will open up the possibility of combining high-speed computing with wireless telephony to create pocket machines that link to the Internet, giving access to e-mail and the world wide web.

The first SOI chips could be commercially available next year.

All the new developments point to ever greater integration, both in the computer market, and the communications field. If the edges of the different market segment become ever more blurred, one thing is clear: hand-held computers are set to get smaller, smarter and more specialised.

Smartphones report: page 19

PERSONAL ORGANISERS By Gail Shillingford

Spoiled for choice

Even better machines are on the way, with improved screens and keyboards

Can you be organised without a personal organiser? Not according to the manufacturers. They have positioned the hand-held devices as portable replacements for the address book, diary, rotary card index, notepad and spreadsheet. They can even wake you up in the morning.

Below, we look at hand-held and other computers running Windows CE and ask whether there is anything to choose between them. Or whether you should opt for one of these machines at all.

Howard Seabrook, a research director at the Gartner Group, says that though we tend to think of Windows CE as a stripped-down version of Windows, as an operating system for personal organisers, CE is part of a much broader strategy.

He says Microsoft plans to use Windows CE in three areas:

□ First, the company wants CE to be used in embedded processors (or chips) for industrial use. "Microsoft is very excited about the possibilities," adds Mr Seabrook.

□ Second, it wants CE to be used in consumer and home products such as televisions, video recorders and interactive TVs. In the shorter term, it will be working with Sega to produce a new games console, running CE. It will also be working on interactive television design with Thomson Multimedia of France in which it has taken a stake.

□ Third, Microsoft is using CE in personal organisers and this is the area where CE is best known. Makers of CE computers include: Hewlett-Packard, Philips, Compaq and Sharp.

There is also a Palm-sized PC made to a Microsoft design and manufactured by five companies. This has no keyboard: input is via a pen-shaped stylus and handwriting recognition software. Its direct rival is 3Com's (non-CE) PalmPilot, which is more successful because it has better software," says Mr Seabrook.

Most of the hand-held CE machines look somewhat similar and run many of the same applications. But there are a number of factors to consider when choosing a machine: communications, screen, keyboard, price, software, security and data synchronisation.

If you want to use the machine to send and receive electronic mail or surf the

Internet, choose a machine with a built-in modem, such as one of Compaq's models. Using a modem in conjunction with an organiser can quickly drain its batteries unless the modem is designed specifically for the organiser.

Screens for CE machines vary. The most obvious difference is between colour and mono screens. "Colour looks good but you will only get three-and-a-half to four hours' use out of a colour organiser as opposed to two or three days with mono," says Seabrook.

Many CE machines, such as the Hewlett-Packard and Philips ones, have a backlit screen, which can make them more readable. Philips' Velo 500 machine supports 16 shades of grey in 640 x 240 pixels.

Other factors to consider: check the "feel" of the organiser's keyboard before you buy. This is one feature of organisers that varies a lot. Usually, the more pocket-size the machine, the less likely you will be able to touch type on it. If you really plan to do a lot of typing, then a wise choice might be a Toshiba Libretto, a fully fledged PC running Windows 95 but smaller than a standard notebook PC is probably better.

When you look at the £300 to £700-plus price of a CE machine, plus £150 for a modem, you can't help thinking what else you could buy for the money," adds Mr Seabrook.

However, converts to CE include Andrew Hawkins, director of corporate finance at Panmure Gordon, who uses his colour Hewlett-Packard 620 organiser for contacts and diary, Excel and Word.

He has just bought the latest mobile phone from Ericsson that has a built-in modem with an infrared link, so no physical cable is needed between organiser and mobile. Mr Hawkins says: "I use e-mail and the Internet all the time when I'm travelling. I just press a button, put the phone down beside the CE machine and I'm communicating. It's brilliant."

He also has a (non-CE) credit-card sized device - the Rolodex Rev - that holds his most important contacts. Stockbroker Jim Ross likes the flexible, easily accessible contacts database on his HP CE machine and the compatibility with Excel and Word on his personal computer.

The frustrations are that it is slow and that it doesn't have all the spreadsheet functions I would like," he says. Meanwhile, better machines are on the way.

"Slightly bigger machines are coming along with better screens and keyboards," says Mr Seabrook. "They'll be smaller than notebook computers and run CE 2.0 and Microsoft is 'busy talking them up'."

The next release of CE will offer easier data synchronisation and improved performance, though it is up to a year away, he adds. "The reluctance among users to carry around a map in their heads of lots of different devices, may be what will champion Windows CE in the end."

John in the

PALMTOP APPLICATIONS • By George Black

IT managers are taking note

The latest palmtop devices are becoming as useful as notebook computers as portable systems begin to converge, along with mobile phone systems

Information technology managers are starting to look seriously at how palmtop computers could fit into their plans.

The palmtop market is growing rapidly, as the devices have become more powerful and more uses are being found for them.

They began as basic organiser devices, mainly for storing phone numbers and diaries and have evolved in the past few years into much broader business tools. Most palmtops, other than Psion's, are now designed as companions to personal computers, able to synchronise their data with the PC automatically, rather than as stand-alone devices.

The smallest, such as 3Com's PalmPilot, are sometimes confusingly classed as palm-sized computers, as they are small enough to fit into the palm of the hand rather than like most covering the pocket.

The PalmPilot has been the biggest success of the last year. Aimed at users who do not do a lot of data entry, it has dispensed with the conventional keyboard and adopted pen-based input and single-key operations.

Companies are beginning to take palmtops seriously, partly because they believe the devices are becoming as useful as notebooks and

touch of four keys which give quick access to a narrow range of functions.

This simplicity helped the company to reduce the size of the machine and has been one of the main reasons for its success, according to Neville Street, general manager for 3Com's Palm Computing subsidiary.

Most of the other manufacturers have been competing with slightly larger machines, many of which are now based on Microsoft's Windows CE operating system. In this area, Hewlett-Packard is the leader.

The growth in the market - 65 per cent last year, according to Dataquest - has been driven mainly by individual enthusiasts, but increasingly large companies are looking at the possibility of standardising on palmtops for certain sorts of usage.

Cost of ownership would be much lower than for notebooks or laptops.

IT managers need to take control of the purchasing because about a third of the palmtops which are bought from retail stores are used by business people and paid for on their expense accounts.

Companies are beginning to take palmtops seriously, partly because they believe the devices are becoming as useful as notebooks and

party because they can see the beginning of convergence between these devices and mobile phones.

The corporate market for palmtops has yet to develop, but some large UK companies and public sector organisations are engaged in trials, and the vendors are hopeful that some big contracts will soon be signed.

The trials are taking longer than expected because IT managers are wary about investing until they are persuaded that the technology is stable and that they can manage it effectively.

Co-op Bank is trialling Hewlett-Packard's palmtops for customers of its internet banking service.

Surrey Police has been

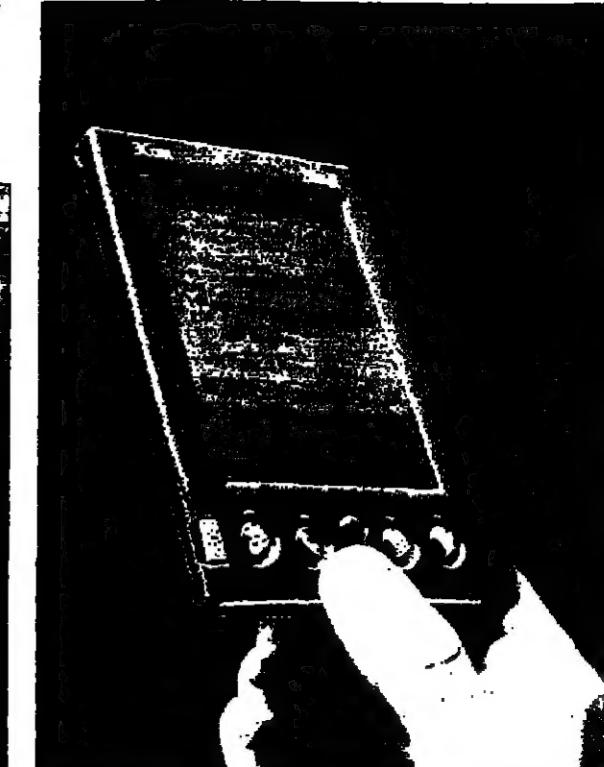
testing Sharp palmtops for access to its intranet, says Sharp's product marketing manager, James Johnston. This could allow police on the move to check criminal records and car ownership.

"Palmtops will go everywhere with you, whereas notebooks will not because they are too big and heavy," he says.

But HP's handheld business manager Dorothy Colton points out that a pharmaceuticals company has recently given its executives palmtops to replace notebooks so that they can access company data from different offices in their own

buildings. However, a mass switch from notebooks to palmtops seems unlikely. The pattern of usage is very different. Notebooks are typically accessed only once or twice a day, but for long periods; palmtops are accessed 15 to 20 times a day, but usually only for a minute or two.

But palmtops may still create a huge new market. There are very many mobile workers - air stewardesses, financial services salespeople, social workers, to name a few - who at present do not use notebooks and whose employers will not



Just launched: the new and more powerful Psion Series 3mx palmtop aims to build on the award-winning Series 3 range which has 1.5 users worldwide

move. This could be just what is needed to persuade big companies to invest.

□ The new Psion Series 3mx, pictured above, will sell in the UK at £270 and offers faster access to personal information.

It has a backlit screen and 2MBs of memory capable of storing 500 pages of A4 text or thousands of addresses, appointments and 'do do' lists. The 3mx can also be linked with PC and Apple Macintosh machines. Extra software titles range from route planners to expense trackers, plus translation and games facilities.

PALMTOP SALES • By Michael Dempsey

Enthusiastic reception

The look and feel of palmtops - known in the industry as 'the form factor' - are key issues for would-be purchasers

Gernot Radl has cause to smile. The Munich-based European manager for Compaq's C-Series palmtop has seen 10,000 C-Series machines sold in the four weeks since its European debut in May.

Mr Radl admits that this enthusiastic reception for the product owes more to activities of a rival company than the need for palmtops compatible with the Windows CE operating system. "Psion raised the profile of this market," he says.

The British maker of the Psion organiser has created a mature market for the palmtop computer, particularly in the UK, Germany and France.

"People in the US are into extremely small gadgets or very large laptops," says Mr Radl, making the corporate market in Europe a top target for his division of Compaq.

Mr Radl has been busy analysing the sales figure of 10,000 units in one month. He concludes that this is a very different marketplace from Compaq's traditional hunting ground of PC sales, to large organisations.

The insurance industry is emerging as a key market, and what they want are specific solutions, often for small tasks," he adds.

Size and total cost of ownership come next on the corporate tick-list. Mr Radl observes, "With a laptop at \$2,000, but a palmtop costing \$1,000, you can equip two people for the price of one."

The corporate buyer receives more than a cheaper machine, however - he gets something so small it doesn't act as a barrier between his sales force and the customer. "In some situations, such as selling financial products, the open cover of a laptop computer is perceived as a barrier between the sales representative and his customer. But the palmtop looks more like a pocket calculator."



Gernot Radl: 'The insurance sector is an important market'

variety of experimental shapes for computing devices aimed at vertical markets. The physical "look and feel" of the palmtop is now known as a "form factor" in IT industry jargon.

Korea's \$74bn LG Group - its interests range from shipbuilding to sporting goods - has entered the palmtop market with the \$450 Phenom. Unlike more expensive palmtops, the Phenom has a monochrome screen, vastly extending battery life.

Matthew Evans, UK assistant product manager with LG's \$19bn electrical goods and electronics arm, says IT managers are being attracted to the Phenom by this basic feature.

"Some managers want to

replace laptops with a mono palmtop because of longer

battery life and lower unit cost," he says.

LG claims up to 15 hours' use with one battery. An internal project, code-named Express, is now looking at the possibility of affixing the low cost and weight of a palmtop with a near full-sized keyboard, enlarging one aspect of the palmtop while keeping key selling features.

LG's experience confirms that the user is now driving the "form factor" debate. Elder Computers, a 250,000 British company, specialises in medical software. It sells a cancer management system, Oncology Patient Management and Audit System, known as Opmas, at prices ranging from £25,000 to £100,000.

This sophisticated software resides on powerful servers at hospitals and in pharmaceutical companies. But its latest manifestation is on cheap palmtop computers issued to nurses in the UK and Holland. Elder has written a series of questionnaires for home-bound patients, and the visiting nurse goes through the list of questions using a Palm Pilot, an ultra-compact palmtop that relies on handwriting recognition and sells for £100 to £200. The Palm Pilot comes from US Robotics, now owned by 3Com.

Jeremy Cummin, managing director at Elder, says "the form factor" of the Pilot - which works under a highly popular operating system from US Robotics, called Palm, and offering an alternative to Windows CE - is a key issue: "There is a need to collect patient data at home, to find out if the patient is comfortable. The Palm Pilot is held by the nurse, who e-mails the data to a host computer at the hospital. There's no question that a very small machine is less intimidating than a laptop, especially in medicine where patients are already worried by their condition."

Ultimately, choosing a successful "form factor" comes down to suppliers gambling on the right compromise for a vertical sector. Elder's experience proves that the same rules apply to nurses as to financial services sales teams. This variety of linkages will give birth to more applications - and different sub-species of palmtop.

CASE STUDY: INSURANCE CLAIMS • By Michael Dempsey

Key role in disaster zones

Highly portable palmtops help provide rapid links with loss adjusters

Insurance companies do not always enjoy a loving relationship with their clients. Many people making a claim for loss or damages from their insurer expect a long wait before the cheque arrives.

However, Neil Courtney, UK sales and marketing director at Imbach RAG, thinks this is a false image. His 24.5m operation is part of a 214m German-owned European company that he describes as a "disaster management company".

This involves fire and flood registration work on behalf of a client base of some 3,000 loss adjusters in the UK.

According to Mr Courtney, insurers do not want their clients to sit around waiting for restoration. "They have a quite genuine interest in retaining their customers - if a problem occurs and the insurer doesn't respond promptly, the customer will take his business elsewhere."

Technology enters into this equation as a means of accelerating the process of paying up. Imbach RAG has been searching for ways to speed up its own organisation - and palmtop computers from Sharp have emerged as a powerful and practical answer.

"Most corporate people want the essence of a computer in their hands, but they are willing to compromise on aspects of the PC, such as power or screen size."

"Where there has been a domestic fire and goods have melted or been damaged by smoke, the palmtops are of real value to us. We can collect information very quickly and provide an accurate quote for the loss adjuster."

Imbach RAG staff have written up a routine within the Excel spreadsheet that sits on each Sharp palmtop. This allows them to enter a

particular type of loss, such as the number of dining room chairs damaged, and compute the cost or restoration based on their extensive expertise.

When the palmtop is plugged into a GSM mobile phone, the loss adjuster can receive data in less than an hour and then issue instructions. Imbach RAG staff can also assign specialist repair work while they are still on the site, calling in local companies.

The digital camera clips to the right side of the palmtop, and allows the investigator to record an accurate picture of the damage to the site and incorporate it into his report. This provides a formal record of the extent of the damage in the event of any dispute between the insurer and the customer.

The digital camera sends a little file across to the palmtop, mounting the photo and inserting it in the Excel file. The whole report is then e-mailed to the loss adjuster," says Mr Courtney.

The palmtop and digital

workforce are kept busy. This system may be exported to Imbach RAG's 700 staff operating across the rest of Europe. "We have an enormous amount of business in France: the colour palmtop using Windows could be a good route for investigators there."

The potential of PDAs in this marketplace has been spotted by BT. Its mobile solutions division is selling a package consisting of an Ericsson mobile, linked to a monochrome screen palmtop sourced from HP via an infra-red docking port.

David Moore, head of BT's mobile solutions division, says his staff are working with Ericsson to put more applications on to MC16 series. BT is marketing the phone/palmtop combination with support at a typical price of £25 per week per unit. "We're not just selling the box and mobile phone airtime," says Mr Moore. "Ericsson and BT are working on software that's highly relevant to particular working environments."



This Sharp HC-400 hand-held computer has useful applications in the insurance sector. The computer can be attached to a digital camera to record an accurate picture of damaged areas

"...because even with SAP, it's the people not the disk that make the difference..."

Putting SAP to work with Team 121



SOFTWARE SUPPLIER VIEWPOINT • Lotus Development Corporation

Rivals show new spirit of co-operation

Having contributed to the complexity of personal productivity software, Lotus is anticipating a return to a simpler approach, says Rod Newing

Office productivity suites are the most mature and proprietary sector of the software market. Microsoft Office is the market leader with 72 per cent unit share, against Lotus SmartSuite with 22 per cent. But as their functionality has grown, they have become so large and complex that both software suites require 130 megabytes of storage space.

"This is far more than anybody needs or wants," says Jeff Papows, president and chief executive of Lotus Development Corporation. "Both suites are too big and too bloated and there is a cost associated with all of this insanity," he says.

"A four-column two-colour document with 18 pieces of clip art is counter-productive, yet that is what we have built for people. There are tens of millions of 'person hours' wasted, every year."

Change is overdue

The average user probably uses no more than 20 per cent of the functionality most of the time, he adds.

"It is a 15-year-old \$5bn market and we have so much inherent complexity that maybe it is time for change," suggests Mr Papows.

"You can't cling to the old models forever, however profitable, without someone innovating in a way that rec-

reates that market – and this one is overdue."

He believes that the IT industry tends to start off with a very elegant solution and then develops it to the point it is so complex that it is anything but streamlined.

When the solution is no longer practical, the industry retreats to simplicity and starts again, which happened when client/server computing moved to Web computing. It is cyclical and is about to happen in the software suite market.

The adoption of HTML is

could no longer afford to jam our customers in the middle of our respective "food fights", which both sides have done pretty well for a number of years! It is part of the industry growing up – or maybe the management is growing up a little bit?"

He has been working with Bill Gates, chief executive officer of Microsoft, on various practical aspects that really benefit users, such as co-authoring a standard for calendaring and scheduling.

"The problem is, you don't just need the same vendor's application to read the attachments, but the same vendor," he admits.

"Going to HTML format solves a lot of that problem, although it won't be perfect in the first iteration. It will get better with each successive version and it is a huge step in the right direction."

Both Microsoft and Lotus have already given users the option to save or publish individual documents in HTML, although most people store documents in the proprietary formats. By making HTML an automatic choice, what is already possible will become ubiquitous.

The adoption of the HTML electronic document format will have far-reaching implications for a suite of software designed to produce paper documents. The industry has long talked of the solution being to produce smaller software components, although early attempts have so far been unsuccessful.

In anticipation, Lotus has developed "e-Suite", a new alternative that provides only the 20 per cent of functionality that is used 80 per cent of the time, eliminating a lot of the complexity.

It also uses a client/server architecture to make it more network-efficient. It is written

the next large-scale example of this kind of pragmatism and will help people to share information.

The average size of an electronic mail message has gone up eight times in the last two years, because of the plethora of attachments, including word processor documents, spreadsheets and slide presentations.

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"The problem is, you don't just need the same vendor's application to read the attachments, but the same vendor," he admits.

"Going to HTML format

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Both Microsoft and Lotus have already given users the option to save or publish individual documents in HTML, although most people store documents in the proprietary formats. By making HTML an automatic choice, what is already possible will become ubiquitous.

The adoption of the HTML

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In anticipation, Lotus has

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